



Universitat d'Alacant
Universidad de Alicante

A P E N D I C E S



Universitat d'Alacant
Universidad de Alicante

APENDICE 1:

RESULTADOS CORRESPONDIENTES A CADA EXPERIMENTO

| | |
|---------------------------------|---------------------------|
| FACULTAD DE CIENCIAS-BIBLIOTECA | |
| UNIVERSIDAD DE ALICANTE | |
| N.º REGISTRO | 3508 |
| FECHA | 22-5-84 OPTO. DE ALICANTE |
| 350 | |
| SIGNATURA | 12515 44 |

R. 3508



Tabla A.1 Agua bidestilada-Glucosa al 10% en peso.

| INTERFEROGRAMA: G 1 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| t ₁ = 7200 s t ₂ = 7800 s N _s = 4 N _i = 4 | | | | | | | | |
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.737 | 0.048 | 6.61 | 6.61 | 0.742 | 0.053 | 6.93 |
| | 1 | 0.492 | 0.167 | 6.59 | 6.60 | 0.497 | 0.172 | 6.82 |
| INFERIOR | 0 | 0.785 | 0.048 | 7.32 | 7.26 | 0.742 | 0.043 | 6.98 |
| | 1 | 0.548 | 0.146 | 7.02 | 7.02 | 0.543 | 0.141 | 6.79 |
| Valor medio | | | | 6.88 | 6.89 | | | |
| Desviación típica | | | | | | 0.08 | | |

| INTERFEROGRAMA: G 2 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| t ₁ = 6300 s t ₂ = 6900 s N _s = 4 N _i = 6 | | | | | | | | |
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.581 | 0.040 | 4.76 | 4.76 | 0.612 | 0.071 | 6.51 |
| | 1 | 0.395 | 0.146 | 5.14 | 5.14 | 0.426 | 0.177 | 6.49 |
| INFERIOR | 0 | 0.930 | 0.040 | 10.39 | 10.40 | 0.899 | 0.009 | 6.64 |
| | 1 | 0.618 | 0.111 | 8.16 | 8.17 | 0.587 | 0.080 | 6.44 |
| | 2 | 0.455 | 0.209 | 7.96 | 7.97 | 0.424 | 0.178 | 6.48 |
| Valor medio | | | | 7.28 | 6.90 | | | |
| Desviación típica | | | | | | 0.08 | | |

Tabla A.1. (Continuación).

| INTERFEROGRAMA: G 3 $t_1 = 7980 \text{ s}$ $t_2 = 8880 \text{ s}$ $N_s = 5$ $N_i = 4$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm^2/s) | $D_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.922 | 0.035 | 7.64 | 7.68 | 0.912 | 0.025 | 6.83 |
| | 1 | 0.670 | 0.111 | 7.20 | 7.21 | 0.660 | 0.101 | 6.73 |
| | 2 | 0.501 | 0.213 | 7.14 | 7.16 | 0.491 | 0.203 | 6.74 |
| INFERIOR | 0 | 0.817 | 0.035 | 6.25 | 6.26 | 0.827 | 0.045 | 6.94 |
| | 1 | 0.612 | 0.108 | 6.21 | 6.22 | 0.622 | 0.118 | 6.67 |
| Valor medio | | | | 6.90 | 6.79 | | | 6.78 |
| Desviación típica | | | | | | | | 0.09 |

| INTERFEROGRAMA: G 4 $t_1 = 7200 \text{ s}$ $t_2 = 7800 \text{ s}$ $N_s = 4$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm^2/s) | $D_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.641 | 0.047 | 5.20 | 5.20 | 0.667 | 0.073 | 6.61 |
| | 1 | 0.414 | 0.179 | 5.54 | 5.55 | 0.440 | 0.205 | 6.62 |
| INFERIOR | 0 | 0.895 | 0.047 | 9.04 | 9.04 | 0.869 | 0.021 | 6.72 |
| | 1 | 0.615 | 0.133 | 7.84 | 7.84 | 0.589 | 0.107 | 6.55 |
| | 2 | 0.419 | 0.266 | 7.68 | 7.68 | 0.393 | 0.240 | 6.54 |
| Valor medio | | | | 7.06 | 7.06 | | | 6.61 |
| Desviación típica | | | | | | | | 0.07 |

Tabla A.2 Agua bidestilada-Acido fórmico al 5% en peso.

| INTERFEROGRAMA: AF 1 $t_1 = 900 \text{ s}$ $t_2 = 2100 \text{ s}$ $N_s = 6$ $N_i = 8$ | | | | | | | | |
|---|-----------|-------------------|----------------|---|--|-----------------|----------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.507 | 0.018 | 1.28 | 1.34 | 0.519 | 0.030 | 1.67 |
| | 1 | 0.398 | 0.058 | 1.35 | 1.47 | 0.410 | 0.070 | 1.69 |
| | 2 | 0.302 | 0.106 | 1.28 | 1.42 | 0.314 | 0.118 | 1.61 |
| INFERIOR | 0 | 0.684 | 0.018 | 2.14 | 2.22 | 0.672 | 0.006 | 1.60 |
| | 1 | 0.493 | 0.055 | 1.83 | 1.98 | 0.481 | 0.043 | 1.71 |
| | 2 | 0.397 | 0.102 | 1.80 | 1.99 | 0.385 | 0.090 | 1.77 |
| | 3 | 0.301 | 0.158 | 1.69 | 1.89 | 0.289 | 0.146 | 1.69 |
| Valor medio | | | | 1.62 | 1.72 | 1.67 | | |
| Desviación típica | | | | 0.35 | | 0.05 | | |

| INTERFEROGRAMA: AF 2 $t_1 = 900 \text{ s}$ $t_2 = 2100 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|-------------------|----------------|---|--|-----------------|----------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.518 | 0.016 | 1.29 | 1.34 | 0.524 | 0.022 | 1.52 |
| | 1 | 0.427 | 0.053 | 1.43 | 1.56 | 0.434 | 0.060 | 1.70 |
| | 2 | 0.335 | 0.093 | 1.35 | 1.49 | 0.341 | 0.099 | 1.59 |
| | 3 | 0.241 | 0.162 | 1.35 | 1.50 | 0.247 | 0.168 | 1.59 |
| INFERIOR | 0 | 0.624 | 0.016 | 1.77 | 1.84 | 0.618 | 0.010 | 1.59 |
| | 1 | 0.459 | 0.050 | 1.57 | 1.69 | 0.453 | 0.044 | 1.57 |
| | 2 | 0.367 | 0.090 | 1.50 | 1.66 | 0.361 | 0.084 | 1.55 |
| | 3 | 0.278 | 0.149 | 1.47 | 1.64 | 0.272 | 0.143 | 1.55 |
| Valor medio | | | | 1.46 | 1.59 | 1.58 | | |
| Desviación típica | | | | 0.15 | | 0.04 | | |

Tabla A.2 (Continuación).

| INTERFEROGRAMA: AF 3 $t_1 = 1500 \text{ s}$ $t_2 = 2400 \text{ s}$ $N_s = 4$ $N_i = 4$ | | | | | | | | |
|--|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.528 | 0.037 | 1.34 | 1.36 | 0.542 | 0.051 | 1.61 |
| | 1 | 0.377 | 0.122 | 1.44 | 1.49 | 0.391 | 0.134 | 1.68 |
| INFERIOR | 0 | 0.669 | 0.037 | 1.98 | 2.01 | 0.655 | 0.023 | 1.66 |
| | 1 | 0.389 | 0.155 | 1.78 | 1.84 | 0.375 | 0.141 | 1.64 |
| Valor medio | | | | 1.63 | 1.68 | 1.65 | | |
| Desviación típica | | | | 0.30 | | 0.03 | | |

Tabla A.3. Agua b. destilada-Acido acético al 5% en peso.

| INTERFEROGRAMA: AA 1 $t_1 = 1020 \text{ s}$ $t_2 = 1920 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|--|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.484 | 0.014 | 1.11 | 1.14 | 0.488 | 0.018 | 1.25 |
| | 1 | 0.380 | 0.046 | 1.14 | 1.20 | 0.384 | 0.050 | 1.27 |
| | 2 | 0.311 | 0.080 | 1.13 | 1.20 | 0.315 | 0.084 | 1.26 |
| | 3 | 0.227 | 0.142 | 1.14 | 1.21 | 0.231 | 0.146 | 1.27 |
| INFERIOR | 0 | 0.548 | 0.014 | 1.38 | 1.41 | 0.544 | 0.010 | 1.27 |
| | 1 | 0.420 | 0.043 | 1.30 | 1.36 | 0.416 | 0.039 | 1.29 |
| | 2 | 0.348 | 0.076 | 1.28 | 1.36 | 0.344 | 0.072 | 1.29 |
| | 3 | 0.281 | 0.118 | 1.27 | 1.35 | 0.277 | 0.114 | 1.29 |
| Valor medio | | | | 1.22 | 1.28 | 1.27 | | |
| Desviación típica | | | | 0.11 | | 0.02 | | |

| INTERFEROGRAMA: AA 2 $t_1 = 1980 \text{ s}$ $t_2 = 3180 \text{ s}$ $N_s = 6$ $N_i = 6$ | | | | | | | | |
|--|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.590 | 0.026 | 1.08 | 1.10 | 0.600 | 0.036 | 1.26 |
| | 1 | 0.447 | 0.083 | 1.11 | 1.14 | 0.457 | 0.093 | 1.25 |
| | 2 | 0.313 | 0.170 | 1.09 | 1.13 | 0.323 | 0.180 | 1.23 |
| INFERIOR | 0 | 0.702 | 0.026 | 1.45 | 1.47 | 0.692 | 0.016 | 1.24 |
| | 1 | 0.516 | 0.078 | 1.33 | 1.37 | 0.506 | 0.068 | 1.25 |
| | 2 | 0.405 | 0.142 | 1.33 | 1.38 | 0.395 | 0.132 | 1.27 |
| Valor medio | | | | 1.23 | 1.27 | 1.25 | | |
| Desviación típica | | | | 0.15 | | 0.01 | | |

Tabla A.5. (Continuación).

| INTERFEROGRAMA: AA 3 $t_1 = 3240$ s $t_2 = 4740$ s $N_s = 4$ $N_i = 4$ | | | | | | | | |
|--|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^5$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^5$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.662 | 0.044 | 1.00 | 1.02 | 0.686 | 0.068 | 1.28 |
| | 1 | 0.456 | 0.146 | 1.03 | 1.05 | 0.480 | 0.170 | 1.25 |
| INFERIOR | 1 | 0.613 | 0.129 | 1.44 | 1.47 | 0.589 | 0.105 | 1.24 |
| | 2 | 0.435 | 0.257 | 1.47 | 1.50 | 0.411 | 0.233 | 1.29 |
| Valor medio | | | | 1.24 | 1.26 | | | 1.27 |
| Desviación típica | | | | | | | | 0.02 |

| INTERFEROGRAMA: AA 4 $t_1 = 1020$ s $t_2 = 1920$ s $N_s = 6$ $N_i = 8$ | | | | | | | | |
|--|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^5$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^5$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.454 | 0.015 | 1.03 | 1.06 | 0.462 | 0.023 | 1.25 |
| | 1 | 0.330 | 0.050 | 1.19 | 1.25 | 0.388 | 0.058 | 1.39 |
| | 2 | 0.286 | 0.095 | 1.12 | 1.19 | 0.294 | 0.103 | 1.30 |
| INFERIOR | 0 | 0.560 | 0.015 | 1.48 | 1.52 | 0.552 | 0.007 | 1.22 |
| | 1 | 0.432 | 0.048 | 1.43 | 1.50 | 0.424 | 0.040 | 1.35 |
| | 2 | 0.359 | 0.083 | 1.42 | 1.50 | 0.351 | 0.075 | 1.37 |
| | 3 | 0.286 | 0.131 | 1.41 | 1.50 | 0.278 | 0.123 | 1.38 |
| Valor medio | | | | 1.30 | 1.34 | | | 1.32 |
| Desviación típica | | | | | | | | 0.08 |

Taule A.3 (Continuación).

| INTERFEROGRAMA: AA 5 $t_1 = 1980$ s $t_2 = 3180$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|--|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^5$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^5$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.681 | 0.028 | 1.41 | 1.43 | 0.675 | 0.022 | 1.31 |
| | 1 | 0.499 | 0.084 | 1.32 | 1.37 | 0.493 | 0.078 | 1.28 |
| | 2 | 0.371 | 0.158 | 1.28 | 1.32 | 0.365 | 0.152 | 1.26 |
| INFERIOR | 0 | 0.610 | 0.082 | 1.17 | 1.19 | 0.616 | 0.034 | 1.29 |
| | 1 | 0.466 | 0.082 | 1.18 | 1.21 | 0.472 | 0.088 | 1.28 |
| | 2 | 0.342 | 0.160 | 1.17 | 1.21 | 0.348 | 0.166 | 1.27 |
| Valor medio | | | | 1.25 | 1.29 | 1.28 | | |
| Desviación típica | | | | 0.10 | | 0.02 | | |



Tabla A.4 Agua bidestilada - Acido propiónico al 5% en peso.

| INTERFEROGRAMA: AP 1 $t_1 = 2970 \text{ s}$ $t_2 = 3690 \text{ s}$ $N_s = 2$ $N_i = 4$ | | | | | | | | |
|--|-----------|-------------------|----------------|---|--|-----------------|----------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.505 | 0.053 | 0.84 | 0.84 | 0.534 | 0.082 | 1.12 |
| | 1 | 0.468 | 0.165 | 1.38 | 1.39 | 0.439 | 0.136 | 1.12 |
| INFERIOR | 0 | 0.745 | 0.053 | 1.57 | 1.58 | 0.716 | 0.024 | 1.14 |
| | 1 | 0.468 | 0.165 | 1.38 | 1.39 | 0.439 | 0.136 | 1.12 |
| Valor medio | | | | 1.26 | 1.16 | | | 1.13 |
| Desviación típica | | | | | 0.40 | | | 0.01 |

| INTERFEROGRAMA: AP 2 $t_1 = 1860 \text{ s}$ $t_2 = 2340 \text{ s}$ $N_s = 4$ $N_i = 4$ | | | | | | | | |
|--|-----------|-------------------|----------------|---|--|-----------------|----------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.465 | 0.041 | 1.05 | 1.06 | 0.471 | 0.047 | 1.14 |
| | 1 | 0.269 | 0.142 | 0.97 | 0.98 | 0.275 | 0.148 | 1.04 |
| INFERIOR | 0 | 0.498 | 0.041 | 1.17 | 1.18 | 0.492 | 0.035 | 1.09 |
| | 1 | 0.324 | 0.128 | 1.14 | 1.14 | 0.318 | 0.122 | 1.08 |
| Valor medio | | | | 1.08 | 1.09 | | | 1.09 |
| Desviación típica | | | | | 0.09 | | | 0.05 |

Tabla A.4 (Continuación).

| INTERFEROGRAMA: AP 3 $t_1 = 1200 \text{ s}$ $t_2 = 1800 \text{ s}$ $N_s = 6$ $N_i = 4$ | | | | | | | | |
|--|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm ² /s) | X_{M-1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.561 | 0.021 | 1.59 | 1.61 | 0.548 | 0.008 | 1.19 |
| | 1 | 0.380 | 0.070 | 1.37 | 1.40 | 0.368 | 0.057 | 1.20 |
| | 2 | 0.273 | 0.126 | 1.26 | 1.30 | 0.260 | 0.113 | 1.13 |
| INFERIOR | 0 | 0.401 | 0.021 | 0.91 | 0.92 | 0.414 | 0.034 | 1.15 |
| | 1 | 0.299 | 0.070 | 0.97 | 0.99 | 0.312 | 0.083 | 1.17 |
| Valor medio | | | | 1.22 | 1.20 | 1.17 | | |
| Desviación típica | | | | 0.29 | | 0.03 | | |



Tabla A.5. KCl 0.28 M - KCl 0.38 M. ($t_1 = 600$ s).

| INTERFEROGRAMA: KC 1 $t_1 = 600$ s $t_2 = 2280$ s $N_s = 4$ $N_i = 4$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^5$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^5$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.525 | 0.026 | 1.59 | 1.83 | 0.526 | 0.027 | 1.86 |
| | 1 | 0.360 | 0.086 | 1.48 | 1.88 | 0.361 | 0.087 | 1.90 |
| INFERIOR | 0 | 0.537 | 0.026 | 1.66 | 1.90 | 0.536 | 0.025 | 1.86 |
| | 1 | 0.356 | 0.088 | 1.48 | 1.88 | 0.355 | 0.087 | 1.86 |
| Valor medio | | | | 1.55 | 1.87 | | | 1.87 |
| Desviación típica | | | | | | | | 0.02 |

| INTERFEROGRAMA: KC 2 $t_1 = 600$ s $t_2 = 3180$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^5$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^5$ (cm ² /s) | X_{M+i} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^5$ (cm ² /s) |
| SUPERIOR | 0 | 0.629 | 0.024 | 1.60 | 1.90 | 0.627 | 0.022 | 1.83 |
| | 1 | 0.452 | 0.069 | 1.40 | 1.93 | 0.450 | 0.067 | 1.88 |
| | 2 | 0.320 | 0.130 | 1.25 | 1.87 | 0.318 | 0.128 | 1.83 |
| INFERIOR | 0 | 0.598 | 0.024 | 1.47 | 1.76 | 0.600 | 0.026 | 1.83 |
| | 1 | 0.421 | 0.074 | 1.31 | 1.82 | 0.423 | 0.076 | 1.86 |
| | 2 | 0.289 | 0.145 | 1.20 | 1.80 | 0.291 | 0.147 | 1.84 |
| Valor medio | | | | 1.37 | 1.85 | | | 1.85 |
| Desviación típica | | | | | | | | 0.02 |

Tabla A.5. (Continuación).

| INTERFEROGRAMA: KC 3 $t_1 = 600 \text{ s}$ $t_2 = 2420 \text{ s}$ $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^5$ (cm^2/s) | $D_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.623 | 0.023 | 1.46 | 1.77 | 0.625 | 0.025 | 1.84 |
| | 1 | 0.448 | 0.067 | 1.28 | 1.80 | 0.450 | 0.069 | 1.85 |
| | 2 | 0.321 | 0.131 | 1.19 | 1.83 | 0.323 | 0.133 | 1.87 |
| INFERIOR | 0 | 0.650 | 0.023 | 1.57 | 1.89 | 0.648 | 0.021 | 1.81 |
| | 1 | 0.458 | 0.069 | 1.34 | 1.88 | 0.456 | 0.067 | 1.84 |
| | 2 | 0.317 | 0.137 | 1.21 | 1.87 | 0.315 | 0.135 | 1.84 |
| Valor medio | | | | 1.34 | 1.84 | | | 1.84 |
| Desviación típica | | | | | 0.05 | | | 0.02 |

| INTERFEROGRAMA: KC 4 $t_1 = 600 \text{ s}$ $t_2 = 6240 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^5$ (cm^2/s) | $D_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.854 | 0.020 | 1.42 | 1.84 | 0.853 | 0.019 | 1.80 |
| | 1 | 0.628 | 0.056 | 1.18 | 1.90 | 0.627 | 0.055 | 1.87 |
| | 2 | 0.480 | 0.098 | 1.02 | 1.91 | 0.479 | 0.097 | 1.89 |
| | 3 | 0.353 | 0.156 | 0.90 | 1.89 | 0.352 | 0.155 | 1.87 |
| INFERIOR | 0 | 0.840 | 0.020 | 1.39 | 1.79 | 0.841 | 0.021 | 1.83 |
| | 1 | 0.613 | 0.057 | 1.14 | 1.86 | 0.614 | 0.058 | 1.88 |
| | 2 | 0.458 | 0.106 | 0.99 | 1.90 | 0.459 | 0.107 | 1.92 |
| | 3 | 0.319 | 0.178 | 0.88 | 1.88 | 0.320 | 0.179 | 1.90 |
| Valor medio | | | | 1.11 | 1.87 | | | 1.87 |
| Desviación típica | | | | | 0.04 | | | 0.04 |

Tabla A.5 (Continuación).

| INTERFEROGRAMA: KC 5 | | | | | | | | |
|--|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| $t_1 = 600 \text{ s}$ $t_2 = 6600 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.833 | 0.020 | 1.29 | 1.69 | 0.836 | 0.023 | 1.80 |
| | 1 | 0.610 | 0.058 | 1.08 | 1.80 | 0.613 | 0.061 | 1.87 |
| | 2 | 0.471 | 0.102 | 0.96 | 1.86 | 0.474 | 0.105 | 1.92 |
| | 3 | 0.342 | 0.164 | 0.85 | 1.86 | 0.345 | 0.167 | 1.90 |
| INFERIOR | 0 | 0.904 | 0.020 | 1.49 | 1.93 | 0.901 | 0.017 | 1.80 |
| | 1 | 0.653 | 0.561 | 1.20 | 1.95 | 0.650 | 0.458 | 1.88 |
| | 2 | 0.501 | 0.100 | 1.04 | 1.99 | 0.498 | 0.097 | 1.93 |
| | 3 | 0.362 | 0.158 | 0.89 | 1.92 | 0.359 | 0.155 | 1.87 |
| Valor medio | | | | 1.10 | 1.87 | | | |
| Desviación típica | | | | | 0.10 | | | |
| | | | | | | 1.87 | | |
| | | | | | | 0.05 | | |

| INTERFEROGRAMA: KC 6 | | | | | | | | |
|--|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| $t_1 = 600 \text{ s}$ $t_2 = 7020 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.913 | 0.018 | 1.40 | 1.81 | 0.914 | 0.019 | 1.85 |
| | 1 | 0.653 | 0.056 | 1.13 | 1.88 | 0.654 | 0.057 | 1.90 |
| | 2 | 0.498 | 0.095 | 0.95 | 1.85 | 0.499 | 0.096 | 1.87 |
| | 3 | 0.371 | 0.150 | 0.83 | 1.85 | 0.372 | 0.151 | 1.87 |
| INFERIOR | 0 | 0.919 | 0.018 | 1.42 | 1.83 | 0.918 | 0.017 | 1.80 |
| | 1 | 0.642 | 0.060 | 1.13 | 1.90 | 0.641 | 0.059 | 1.88 |
| | 2 | 0.490 | 0.101 | 0.95 | 1.89 | 0.489 | 0.100 | 1.88 |
| | 3 | 0.351 | 0.169 | 0.85 | 1.93 | 0.350 | 0.168 | 1.91 |
| Valor medio | | | | 1.08 | 1.87 | | | |
| Desviación típica | | | | | 0.04 | | | |
| | | | | | | 1.87 | | |
| | | | | | | 0.04 | | |

Tabla A.5 (continuación).

| INTERFEROGRAMA: KC 7 $t_1 = 500 \text{ s}$ $t_2 = 7200 \text{ s}$ $N_s = 8$ $N_f = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^5$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^5$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^5$ (cm^2/s) |
| SUPERIOR | 0 | 0.920 | 0.018 | 1.38 | 1.79 | 0.922 | 0.020 | 1.88 |
| | 1 | 0.667 | 0.052 | 1.11 | 1.83 | 0.669 | 0.054 | 1.88 |
| | 2 | 0.516 | 0.090 | 0.95 | 1.85 | 0.518 | 0.092 | 1.89 |
| | 3 | 0.391 | 0.143 | 0.84 | 1.88 | 0.393 | 0.145 | 1.91 |
| INFERIOR | 0 | 0.960 | 0.018 | 1.49 | 1.92 | 0.958 | 0.016 | 1.83 |
| | 1 | 0.674 | 0.056 | 1.16 | 1.94 | 0.672 | 0.054 | 1.89 |
| | 2 | 0.509 | 0.100 | 0.98 | 1.96 | 0.507 | 0.098 | 1.92 |
| | 3 | 0.369 | 0.160 | 0.85 | 1.93 | 0.367 | 0.158 | 1.90 |
| Valor medio | | | | 1.10 | 1.89 | | | |
| Desviación típica | | | | | 0.05 | | | |
| | | | | | | 0.02 | | |



Tabla A.6 Experimento SC 11. CuSO_4 1%-2% ($t_1=3000$ s).

| INTERFEROGRAMA: SC 11-1 $t_1 = 3000$ s $t_2 = 5540$ s $N_s = 4$ $N_l = 4$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.566 | 0.035 | 6.65 | 6.89 | 0.556 | 0.025 | 5.95 |
| | 1 | 0.376 | 0.109 | 6.42 | 6.42 | 0.366 | 0.099 | 5.82 |
| INFERIOR | 0 | 0.478 | 0.035 | 5.03 | 5.23 | 0.488 | 0.045 | 5.98 |
| | 1 | 0.306 | 0.124 | 5.01 | 5.32 | 0.316 | 0.134 | 5.87 |
| Valor medio | | | | 5.69 | 5.96 | | | 5.90 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 11-2 $t_1 = 3000$ s $t_2 = 5880$ s $N_s = 4$ $N_l = 4$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.575 | 0.031 | 6.38 | 6.63 | 0.567 | 0.023 | 5.85 |
| | 1 | 0.383 | 0.107 | 5.98 | 6.38 | 0.375 | 0.099 | 5.91 |
| INFERIOR | 0 | 0.498 | 0.031 | 5.03 | 5.24 | 0.506 | 0.039 | 5.86 |
| | 1 | 0.333 | 0.116 | 5.19 | 5.56 | 0.341 | 0.124 | 6.00 |
| Valor medio | | | | 5.64 | 5.95 | | | 5.91 |
| Desviación típica | | | | | | | | 0.07 |

Tabla A.6 (Continuación).

| INTERFEROGRAMA: SC 11-3 $t_1 = 3000$ s $t_2 = 6300$ s $N_s = 4$ $N_i = 4$ | | | | | | | | |
|---|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.610 | 0.030 | 6.58 | 6.87 | 0.601 | 0.021 | 5.95 |
| | 1 | 0.416 | 0.098 | 6.07 | 6.55 | 0.407 | 0.089 | 6.00 |
| INFERIOR | 0 | 0.514 | 0.030 | 4.95 | 5.19 | 0.523 | 0.039 | 5.91 |
| | 1 | 0.359 | 0.101 | 5.05 | 5.46 | 0.368 | 0.110 | 5.97 |
| Valor medio | | | | 5.66 | 6.02 | | | 5.95 |
| Desviación típica | | | | | | | | 0.04 |

| INTERFEROGRAMA: SC 11-4 $t_1 = 3000$ s $t_2 = 6660$ s $N_s = 6$ $N_i = 4$ | | | | | | | | |
|---|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.654 | 0.028 | 7.03 | 7.37 | 0.641 | 0.015 | 5.88 |
| | 1 | 0.451 | 0.091 | 6.28 | 6.84 | 0.438 | 0.078 | 6.02 |
| | 2 | 0.319 | 0.171 | 6.02 | 6.66 | 0.306 | 0.158 | 5.94 |
| INFERIOR | 0 | 0.513 | 0.028 | 4.69 | 4.94 | 0.526 | 0.041 | 5.95 |
| | 1 | 0.370 | 0.091 | 4.73 | 5.17 | 0.383 | 0.104 | 5.89 |
| Valor medio | | | | 5.75 | 6.20 | | | 5.93 |
| Desviación típica | | | | | | | | 0.06 |

Tabla A.6 (Continuación).

| INTERFEROGRAMA: SC 11-5 $t_1 = 3000 \text{ s}$ $t_2 = 7860 \text{ s}$ $N_s = 6$ $N_1 = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.635 | 0.024 | 5.67 | 6.04 | 0.635 | 0.024 | 6.04 |
| | 1 | 0.467 | 0.074 | 5.33 | 5.97 | 0.467 | 0.074 | 5.97 |
| | 2 | 0.351 | 0.139 | 5.16 | 5.93 | 0.351 | 0.139 | 5.93 |
| INFERIOR | 0 | 0.627 | 0.024 | 5.55 | 5.91 | 0.627 | 0.024 | 5.91 |
| | 1 | 0.466 | 0.078 | 5.43 | 6.09 | 0.466 | 0.078 | 6.09 |
| | 2 | 0.343 | 0.147 | 5.21 | 6.00 | 0.343 | 0.147 | 6.00 |
| Valor medio | | | | 5.39 | 5.99 | | | 5.99 |
| Desviación típica | | | | | 0.07 | | | 0.07 |

| INTERFEROGRAMA: SC 11-6 $t_1 = 3000 \text{ s}$ $t_2 = 8220 \text{ s}$ $N_s = 6$ $N_1 = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.707 | 0.021 | 6.36 | 6.76 | 0.701 | 0.015 | 6.02 |
| | 1 | 0.508 | 0.072 | 5.76 | 6.43 | 0.502 | 0.066 | 6.11 |
| | 2 | 0.389 | 0.131 | 5.50 | 6.38 | 0.383 | 0.125 | 6.06 |
| INFERIOR | 0 | 0.620 | 0.021 | 5.08 | 5.42 | 0.626 | 0.027 | 6.00 |
| | 1 | 0.464 | 0.075 | 5.13 | 5.82 | 0.470 | 0.081 | 6.18 |
| | 2 | 0.341 | 0.148 | 5.04 | 5.88 | 0.347 | 0.154 | 6.19 |
| Valor medio | | | | 5.48 | 6.13 | | | 6.09 |
| Desviación típica | | | | | 0.50 | | | 0.08 |

Tabla A.6. (Continuación).

| INTERFEROGRAMA: SC 11-7 $t_1 = 3000 \text{ s}$ $t_2 = 8520 \text{ s}$ $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.683 | 0.022 | 5.91 | 6.32 | 0.681 | 0.020 | 6.10 |
| | 1 | 0.508 | 0.069 | 5.50 | 6.24 | 0.506 | 0.067 | 6.11 |
| | 2 | 0.393 | 0.124 | 5.25 | 6.14 | 0.391 | 0.122 | 6.03 |
| INFERIOR | 0 | 0.648 | 0.022 | 5.40 | 5.78 | 0.650 | 0.024 | 5.99 |
| | 1 | 0.486 | 0.072 | 5.27 | 6.00 | 0.488 | 0.074 | 6.12 |
| | 2 | 0.367 | 0.135 | 5.07 | 5.96 | 0.369 | 0.137 | 6.06 |
| Valor medio | | | | 5.40 | 6.07 | | | 6.07 |
| Desviación típica | | | | | 1.97 | | | 0.05 |

| INTERFEROGRAMA: SC 11-8 $t_1 = 3000 \text{ s}$ $t_2 = 9060 \text{ s}$ $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.693 | 0.021 | 5.71 | 6.14 | 0.692 | 0.020 | 6.02 |
| | 1 | 0.520 | 0.063 | 5.24 | 6.01 | 0.519 | 0.062 | 5.94 |
| | 2 | 0.407 | 0.119 | 5.11 | 6.08 | 0.406 | 0.118 | 6.02 |
| INFERIOR | 0 | 0.676 | 0.021 | 5.47 | 5.89 | 0.677 | 0.022 | 6.00 |
| | 1 | 0.504 | 0.068 | 5.14 | 5.92 | 0.505 | 0.069 | 5.99 |
| | 2 | 0.395 | 0.121 | 4.97 | 5.92 | 0.396 | 0.122 | 5.97 |
| Valor medio | | | | 5.27 | 5.99 | | | 5.99 |
| Desviación típica | | | | | 0.10 | | | 0.03 |

Tabla A.6 (Continuación).

| INTERFEROGRAMA: SC 11-9 $t_1 = 3000$ s $t_2 = 9720$ s $N_s = 8$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.747 | 0.021 | 6.13 | 6.62 | 0.742 | 0.016 | 6.00 |
| | 1 | 0.542 | 0.065 | 5.54 | 6.44 | 0.547 | 0.060 | 6.11 |
| | 2 | 0.440 | 0.112 | 5.20 | 6.28 | 0.435 | 0.107 | 6.00 |
| | 3 | 0.327 | 0.191 | 5.15 | 6.39 | 0.322 | 0.186 | 6.13 |
| INFERIOR | 0 | 0.679 | 0.021 | 5.21 | 5.65 | 0.684 | 0.026 | 6.16 |
| | 1 | 0.520 | 0.058 | 4.78 | 5.55 | 0.525 | 0.063 | 5.86 |
| | 2 | 0.409 | 0.115 | 4.76 | 5.77 | 0.414 | 0.120 | 6.04 |
| Valor medio | | | | 5.25 | 6.10 | | | 6.04 |
| Desviación típica | | | | | | | | 0.10 |

| INTERFEROGRAMA: SC 11-10 $t_1 = 3000$ s $t_2 = 10320$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.746 | 0.021 | 5.85 | 6.37 | 0.744 | 0.019 | 6.14 |
| | 1 | 0.559 | 0.060 | 5.18 | 6.08 | 0.557 | 0.058 | 5.95 |
| | 2 | 0.452 | 0.107 | 5.04 | 6.18 | 0.450 | 0.105 | 6.07 |
| | 3 | 0.350 | 0.166 | 4.77 | 6.02 | 0.348 | 0.164 | 5.92 |
| INFERIOR | 0 | 0.718 | 0.021 | 5.49 | 5.98 | 0.720 | 0.023 | 6.20 |
| | 1 | 0.542 | 0.062 | 5.01 | 5.90 | 0.544 | 0.064 | 6.03 |
| | 2 | 0.436 | 0.110 | 4.84 | 5.95 | 0.438 | 0.112 | 6.05 |
| | 3 | 0.307 | 0.194 | 4.63 | 5.87 | 0.309 | 0.196 | 5.97 |
| Valor medio | | | | 5.10 | 6.04 | | | 6.04 |
| Desviación típica | | | | | | | | 0.09 |

Tabla A.7 Experimento SC 12. CuSO_4 1%-2% ($t_1 = 2580$ s).

| INTERFEROGRAMA: SC 12-i $t_1 = 2580$ s $t_2 = 6120$ s $N_s = 6$ $N_l = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.586 | 0.023 | 6.11 | 6.44 | 0.582 | 0.019 | 5.99 |
| | 1 | 0.424 | 0.072 | 5.66 | 6.22 | 0.420 | 0.068 | 5.95 |
| | 2 | 0.311 | 0.137 | 5.45 | 6.11 | 0.307 | 0.133 | 5.88 |
| INFERIOR | 0 | 0.544 | 0.023 | 5.38 | 5.68 | 0.548 | 0.027 | 6.08 |
| | 1 | 0.396 | 0.074 | 5.18 | 5.70 | 0.400 | 0.078 | 5.96 |
| | 2 | 0.274 | 0.154 | 5.13 | 5.77 | 0.278 | 0.158 | 5.99 |
| Valor medio | | | | 5.48 | 5.99 | | | 5.97 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 12-2 $t_1 = 2580$ s $t_2 = 6360$ s $N_s = 6$ $N_l = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.590 | 0.023 | 5.98 | 6.32 | 0.588 | 0.021 | 6.10 |
| | 1 | 0.432 | 0.069 | 5.56 | 6.15 | 0.430 | 0.067 | 6.01 |
| | 2 | 0.327 | 0.130 | 5.45 | 6.17 | 0.325 | 0.128 | 6.05 |
| INFERIOR | 0 | 0.568 | 0.023 | 5.61 | 5.95 | 0.570 | 0.025 | 6.16 |
| | 1 | 0.412 | 0.074 | 5.37 | 5.96 | 0.414 | 0.076 | 6.09 |
| | 2 | 0.293 | 0.143 | 5.10 | 5.79 | 0.295 | 0.145 | 5.90 |
| Valor medio | | | | 5.51 | 6.06 | | | 6.05 |
| Desviación típica | | | | | | | | 0.09 |

Tabla A.7 (Continuación).

| INTERFEROGRAMA: SC 12-3 $t_1 = 2580 \text{ s}$ $t_2 = 6760 \text{ s}$ $N_s = 6$ $N_f = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.550 | 0.021 | 4.97 | 5.30 | 0.558 | 0.029 | 6.07 |
| | 1 | 0.416 | 0.068 | 4.97 | 5.58 | 0.424 | 0.076 | 6.09 |
| | 2 | 0.311 | 0.129 | 4.85 | 5.59 | 0.319 | 0.137 | 6.03 |
| INFERIOR | 0 | 0.657 | 0.021 | 6.73 | 7.13 | 0.649 | 0.013 | 6.04 |
| | 1 | 0.469 | 0.068 | 5.95 | 6.65 | 0.461 | 0.060 | 6.09 |
| | 2 | 0.357 | 0.123 | 5.63 | 6.46 | 0.349 | 0.115 | 5.99 |
| Valor medio | | | | 5.52 | 6.12 | | | 6.05 |
| Desviación típica | | | | 0.73 | | | | 0.04 |

| INTERFEROGRAMA: SC 12-4 $t_1 = 2580 \text{ s}$ $t_2 = 8160 \text{ s}$ $N_s = 8$ $N_f = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.624 | 0.018 | 5.12 | 5.52 | 0.629 | 0.023 | 6.07 |
| | 1 | 0.478 | 0.057 | 4.92 | 5.69 | 0.483 | 0.062 | 6.03 |
| | 2 | 0.385 | 0.101 | 4.80 | 5.76 | 0.390 | 0.106 | 6.05 |
| | 3 | 0.271 | 0.180 | 4.68 | 5.77 | 0.276 | 0.185 | 6.03 |
| INFERIOR | 0 | 0.707 | 0.018 | 6.35 | 6.80 | 0.702 | 0.013 | 6.09 |
| | 1 | 0.514 | 0.057 | 5.52 | 6.36 | 0.509 | 0.052 | 6.00 |
| | 2 | 0.409 | 0.103 | 5.29 | 6.35 | 0.404 | 0.098 | 6.05 |
| | 3 | 0.298 | 0.170 | 4.96 | 6.10 | 0.293 | 0.165 | 5.83 |
| Valor medio | | | | 5.20 | 6.04 | | | 6.02 |
| Desviación típica | | | | 0.44 | | | | 0.08 |

Tabla A.7 (Continuación).

| INTERFEROGRAMA: SC 12-5 $t_1 = 2580 \text{ s}$ $t_2 = 8460 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.661 | 0.017 | 5.42 | 5.84 | 0.662 | 0.018 | 5.96 |
| | 1 | 0.499 | 0.056 | 5.08 | 5.91 | 0.500 | 0.057 | 5.98 |
| | 2 | 0.404 | 0.098 | 4.91 | 5.95 | 0.405 | 0.099 | 6.00 |
| | 3 | 0.307 | 0.161 | 4.79 | 5.95 | 0.308 | 0.162 | 6.00 |
| INFERIOR | 0 | 0.683 | 0.017 | 5.74 | 6.17 | 0.682 | 0.016 | 6.04 |
| | 1 | 0.509 | 0.056 | 5.24 | 6.10 | 0.508 | 0.055 | 6.03 |
| | 2 | 0.404 | 0.100 | 4.97 | 6.02 | 0.403 | 0.099 | 5.96 |
| | 3 | 0.299 | 0.167 | 4.78 | 5.94 | 0.298 | 0.166 | 5.89 |
| Valor medio | | | | 5.12 | 5.99 | | | 5.98 |
| Desviación típica | | | | | 0.11 | | | 0.05 |

| INTERFEROGRAMA: SC 12-6 $t_1 = 2580 \text{ s}$ $t_2 = 8760 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.646 | 0.016 | 4.99 | 5.38 | 0.650 | 0.020 | 5.85 |
| | 1 | 0.500 | 0.057 | 5.00 | 5.87 | 0.504 | 0.061 | 6.15 |
| | 2 | 0.403 | 0.099 | 4.80 | 5.87 | 0.407 | 0.103 | 6.10 |
| | 3 | 0.306 | 0.160 | 4.62 | 5.81 | 0.310 | 0.164 | 6.02 |
| INFERIOR | 0 | 0.733 | 0.016 | 6.21 | 6.65 | 0.729 | 0.012 | 6.05 |
| | 1 | 0.532 | 0.055 | 5.43 | 6.35 | 0.528 | 0.051 | 6.06 |
| | 2 | 0.423 | 0.097 | 5.08 | 6.20 | 0.419 | 0.093 | 5.96 |
| | 3 | 0.325 | 0.156 | 4.88 | 6.13 | 0.321 | 0.152 | 5.91 |
| Valor medio | | | | 5.13 | 6.03 | | | 6.01 |
| Desviación típica | | | | | 0.39 | | | 0.10 |

Tabla 2.3 Experimento SC 21. CuSO_4 1%-3% ($t_1 = 3300$ s).

| INTERFEROGRAMA: SC 21-1 $t_1 = 3300$ s $t_2 = 5340$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.495 | 0.022 | 4.56 | 4.64 | 0.506 | 0.033 | 5.54 |
| | 1 | 0.379 | 0.072 | 4.84 | 4.99 | 0.390 | 0.083 | 5.62 |
| | 2 | 0.264 | 0.148 | 4.78 | 4.96 | 0.275 | 0.159 | 5.52 |
| INFERIOR | 0 | 0.629 | 0.022 | 6.84 | 6.95 | 0.618 | 0.011 | 5.57 |
| | 1 | 0.448 | 0.072 | 6.19 | 6.37 | 0.437 | 0.061 | 5.66 |
| | 2 | 0.345 | 0.133 | 6.14 | 6.36 | 0.334 | 0.122 | 5.74 |
| Valor medio | | | | 5.56 | 5.71 | | | 5.61 |
| Desviación típica | | | | | | | | 0.08 |

| INTERFEROGRAMA: SC 21-2 $t_1 = 3300$ s $t_2 = 5820$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.542 | 0.020 | 4.87 | 4.98 | 0.550 | 0.028 | 5.69 |
| | 1 | 0.424 | 0.060 | 4.95 | 5.15 | 0.432 | 0.068 | 5.63 |
| | 2 | 0.335 | 0.112 | 4.98 | 5.22 | 0.343 | 0.120 | 5.64 |
| INFERIOR | 0 | 0.644 | 0.019 | 6.48 | 6.61 | 0.636 | 0.011 | 5.58 |
| | 1 | 0.476 | 0.063 | 6.04 | 6.27 | 0.468 | 0.055 | 5.74 |
| | 2 | 0.380 | 0.110 | 5.84 | 6.12 | 0.372 | 0.102 | 5.67 |
| Valor medio | | | | 5.53 | 5.72 | | | 5.66 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.8 (Continuación).

| INTERFEROGRAMA: SC 21-3 $t_1 = 3300$ s $t_2 = 6240$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.624 | 0.018 | 5.77 | 5.92 | 0.621 | 0.015 | 5.57 |
| | 1 | 0.484 | 0.055 | 5.58 | 5.84 | 0.481 | 0.052 | 5.64 |
| | 2 | 0.401 | 0.097 | 5.58 | 5.90 | 0.398 | 0.094 | 5.73 |
| | 3 | 0.314 | 0.155 | 5.52 | 5.89 | 0.311 | 0.152 | 5.73 |
| INFERIOR | 0 | 0.602 | 0.016 | 5.21 | 5.32 | 0.605 | 0.019 | 5.66 |
| | 1 | 0.471 | 0.050 | 5.12 | 5.58 | 0.474 | 0.053 | 5.55 |
| | 2 | 0.385 | 0.097 | 5.27 | 5.58 | 0.388 | 0.100 | 5.75 |
| | 3 | 0.288 | 0.162 | 5.18 | 5.53 | 0.291 | 0.165 | 5.68 |
| Valor medio | | | | 5.40 | 5.67 | | | 5.66 |
| Desviación típica | | | | | | | | 0.08 |

| INTERFEROGRAMA: SC 21-4 $t_1 = 3300$ s $t_2 = 6600$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.673 | 0.016 | 6.11 | 6.26 | 0.668 | 0.011 | 5.58 |
| | 1 | 0.524 | 0.048 | 5.75 | 6.04 | 0.519 | 0.43 | 5.69 |
| | 2 | 0.431 | 0.085 | 5.56 | 5.92 | 0.426 | 0.080 | 5.63 |
| | 3 | 0.356 | 0.130 | 5.52 | 5.94 | 0.351 | 0.125 | 5.68 |
| INFERIOR | 0 | 0.596 | 0.016 | 4.95 | 5.08 | 0.601 | 0.021 | 5.60 |
| | 1 | 0.473 | 0.051 | 5.00 | 5.28 | 0.478 | 0.056 | 5.59 |
| | 2 | 0.396 | 0.090 | 5.09 | 5.44 | 0.401 | 0.095 | 5.71 |
| | 3 | 0.311 | 0.144 | 4.98 | 5.37 | 0.316 | 0.149 | 5.62 |
| Valor medio | | | | 5.37 | 5.67 | | | 5.64 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.8 (Continuación).

| INTERFEROGRAMA: SC 21-5 $t_1 = 3300 \text{ s}$ $t_2 = 6900 \text{ s}$ $N_s = 10$ $N_i = 8$ | | | | | | | | |
|--|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.725 | 0.016 | 6.75 | 6.93 | 0.716 | 0.007 | 5.48 |
| | 1 | 0.545 | 0.048 | 5.94 | 6.29 | 0.536 | 0.039 | 5.63 |
| | 2 | 0.460 | 0.082 | 5.84 | 6.27 | 0.451 | 0.073 | 5.73 |
| | 3 | 0.383 | 0.120 | 5.58 | 6.04 | 0.374 | 0.111 | 5.56 |
| | 4 | 0.301 | 0.179 | 5.52 | 6.02 | 0.292 | 0.170 | 5.56 |
| INFERIOR | 0 | 0.582 | 0.016 | 4.62 | 4.76 | 0.591 | 0.025 | 5.63 |
| | 1 | 0.473 | 0.048 | 4.75 | 5.03 | 0.482 | 0.057 | 5.60 |
| | 2 | 0.402 | 0.082 | 4.79 | 5.16 | 0.411 | 0.091 | 5.65 |
| | 3 | 0.326 | 0.130 | 4.77 | 5.18 | 0.335 | 0.139 | 5.63 |
| Valor medio | | | | 5.40 | 5.67 | | | 5.61 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 21-6 $t_1 = 3300 \text{ s}$ $t_2 = 7440 \text{ s}$ $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.630 | 0.015 | 4.90 | 5.07 | 0.636 | 0.021 | 5.72 |
| | 1 | 0.511 | 0.044 | 4.90 | 5.24 | 0.517 | 0.050 | 5.64 |
| | 2 | 0.442 | 0.076 | 4.99 | 5.43 | 0.448 | 0.082 | 5.77 |
| | 3 | 0.373 | 0.113 | 4.91 | 5.41 | 0.379 | 0.119 | 5.72 |
| | 4 | 0.298 | 0.166 | 4.88 | 5.42 | 0.304 | 0.172 | 5.71 |
| INFERIOR | 0 | 0.733 | 0.015 | 6.39 | 6.58 | 0.727 | 0.009 | 5.64 |
| | 1 | 0.560 | 0.045 | 5.75 | 6.14 | 0.554 | 0.039 | 5.70 |
| | 2 | 0.476 | 0.076 | 5.59 | 6.07 | 0.470 | 0.070 | 5.71 |
| | 3 | 0.403 | 0.113 | 5.47 | 6.01 | 0.397 | 0.107 | 5.69 |
| | 4 | 0.336 | 0.158 | 5.41 | 6.00 | 0.330 | 0.152 | 5.69 |
| Valor medio | | | | 5.32 | 5.74 | | | 5.70 |
| Desviación típica | | | | | | | | 0.04 |

Tabla A.9 Experimento SC 22. CuSO_4 1%-3% (t_1 4020 s).

| INTERFEROGRAMA: SC 22-1 $t_1 = 4020$ s $t_2 = 6120$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm^2/s) | $D_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.576 | 0.025 | 5.23 | 5.30 | 0.580 | 0.029 | 5.63 |
| | 1 | 0.424 | 0.082 | 5.18 | 5.30 | 0.428 | 0.086 | 5.51 |
| | 2 | 0.286 | 0.178 | 5.20 | 5.36 | 0.290 | 0.182 | 5.55 |
| INFERIOR | 0 | 0.620 | 0.025 | 5.92 | 5.99 | 0.615 | 0.021 | 5.62 |
| | 1 | 0.451 | 0.082 | 5.67 | 5.81 | 0.447 | 0.078 | 5.58 |
| | 2 | 0.326 | 0.163 | 5.67 | 5.84 | 0.322 | 0.159 | 5.64 |
| Valor medio | | | | 5.48 | 5.60 | | | 5.59 |
| Desviación típica | | | | | | | | 0.05 |
| | | | | | | | | 0.39 |

| INTERFEROGRAMA: SC 22-2 $t_1 = 4020$ s $t_2 = 6360$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm^2/s) | $D_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.575 | 0.024 | 4.96 | 5.05 | 0.582 | 0.031 | 5.32 |
| | 1 | 0.431 | 0.076 | 5.01 | 5.15 | 0.438 | 0.083 | 5.52 |
| | 2 | 0.315 | 0.158 | 5.17 | 5.35 | 0.322 | 0.165 | 5.68 |
| INFERIOR | 0 | 0.660 | 0.024 | 6.29 | 6.39 | 0.653 | 0.017 | 5.66 |
| | 1 | 0.486 | 0.075 | 5.92 | 6.07 | 0.479 | 0.068 | 5.67 |
| | 2 | 0.373 | 0.142 | 5.92 | 6.12 | 0.366 | 0.135 | 5.76 |
| Valor medio | | | | 5.55 | 5.69 | | | 5.65 |
| Desviación típica | | | | | | | | 0.08 |
| | | | | | | | | 0.57 |

Tabla A.9 (Continuación)

| INTERFEROGRAMA: SC 22-3 $t_1 = 4020 \text{ s}$ $t_2 = 6900 \text{ s}$ $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\varnothing_{\text{aprox}} \times 10^6$ (cm^2/s) | $\varnothing_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\varnothing_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.640 | 0.023 | 5.62 | 5.73 | 0.640 | 0.023 | 5.73 |
| | 1 | 0.495 | 0.067 | 5.48 | 5.68 | 0.495 | 0.067 | 5.68 |
| | 2 | 0.393 | 0.119 | 5.38 | 5.61 | 0.393 | 0.119 | 5.61 |
| INFERIOR | 0 | 0.646 | 0.023 | 5.70 | 5.81 | 0.646 | 0.023 | 5.81 |
| | 1 | 0.500 | 0.063 | 5.43 | 5.62 | 0.500 | 0.063 | 5.62 |
| | 2 | 0.402 | 0.116 | 5.44 | 5.68 | 0.402 | 0.116 | 5.68 |
| Valor medio | | | | 5.51 | 5.69 | | | 5.69 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 22-4 $t_1 = 4020 \text{ s}$ $t_2 = 7320 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\varnothing_{\text{aprox}} \times 10^6$ (cm^2/s) | $\varnothing_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\varnothing_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.634 | 0.018 | 4.99 | 5.09 | 0.640 | 0.024 | 5.65 |
| | 1 | 0.499 | 0.062 | 5.18 | 5.40 | 0.505 | 0.068 | 5.75 |
| | 2 | 0.404 | 0.108 | 5.06 | 5.32 | 0.410 | 0.114 | 5.62 |
| | 3 | 0.291 | 0.186 | 4.94 | 5.23 | 0.297 | 0.192 | 5.50 |
| INFERIOR | 0 | 0.714 | 0.018 | 6.12 | 6.24 | 0.708 | 0.012 | 5.52 |
| | 1 | 0.548 | 0.058 | 5.85 | 6.08 | 0.542 | 0.052 | 5.71 |
| | 2 | 0.448 | 0.104 | 5.73 | 6.02 | 0.442 | 0.098 | 5.71 |
| | 3 | 0.359 | 0.152 | 5.69 | 6.02 | 0.353 | 0.156 | 5.72 |
| Valor medio | | | | 5.44 | 5.68 | | | 5.65 |
| Desviación típica | | | | | | | | 0.09 |

Tabla A.9 (Continuación).

| INTERFEROGRAMA: SC 22-5 $t_1 = 4020$ s $t_2 = 7620$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.627 | 0.018 | 4.76 | 4.88 | 0.636 | 0.027 | 5.67 |
| | 1 | 0.501 | 0.058 | 4.94 | 5.18 | 0.510 | 0.067 | 5.69 |
| | 2 | 0.408 | 0.102 | 4.84 | 5.12 | 0.417 | 0.111 | 5.56 |
| | 3 | 0.312 | 0.169 | 4.82 | 5.14 | 0.321 | 0.178 | 5.55 |
| INFERIOR | 0 | 0.769 | 0.018 | 6.78 | 6.92 | 0.760 | 0.009 | 5.68 |
| | 1 | 0.576 | 0.055 | 5.99 | 6.26 | 0.567 | 0.046 | 5.67 |
| | 2 | 0.479 | 0.097 | 5.90 | 6.24 | 0.470 | 0.088 | 5.75 |
| | 3 | 0.393 | 0.148 | 5.83 | 6.20 | 0.384 | 0.139 | 5.76 |
| Valor medio | | | | 5.48 | 5.74 | 5.66 | | |
| Desviación típica | | | | 0.75 | | 0.09 | | |

| INTERFEROGRAMA: SC 22-6 $t_1 = 4020$ s $t_2 = 8160$ s $N_s = 8$ $N_i = 10$ | | | | | | | | |
|--|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.672 | 0.016 | 4.99 | 5.12 | 0.678 | 0.022 | 5.71 |
| | 1 | 0.541 | 0.051 | 5.04 | 5.32 | 0.547 | 0.057 | 5.68 |
| | 2 | 0.454 | 0.089 | 4.99 | 5.34 | 0.460 | 0.095 | 5.64 |
| | 3 | 0.370 | 0.140 | 4.96 | 5.35 | 0.376 | 0.146 | 5.63 |
| INFERIOR | 0 | 0.767 | 0.016 | 6.28 | 6.42 | 0.761 | 0.010 | 5.62 |
| | 1 | 0.592 | 0.049 | 5.74 | 6.04 | 0.586 | 0.043 | 5.64 |
| | 2 | 0.497 | 0.087 | 5.66 | 6.04 | 0.491 | 0.081 | 5.71 |
| | 3 | 0.419 | 0.129 | 5.55 | 5.97 | 0.413 | 0.123 | 5.68 |
| | 4 | 0.330 | 0.191 | 5.44 | 5.89 | 0.324 | 0.185 | 5.62 |
| Valor medio | | | | 5.41 | 5.72 | 5.66 | | |
| Desviación típica | | | | 0.45 | | 0.04 | | |

Tabla A.9 (Continuación).

| INTERFEROGRAMA: SC 22-7 $t_1 = 4020$ s $t_2 = 8610$ s $N_S = 10$ $N_I = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregida} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.700 | 0.016 | 5.13 | 5.27 | 0.704 | 0.020 | 5.69 |
| | 1 | 0.570 | 0.048 | 5.16 | 5.47 | 0.574 | 0.052 | 5.72 |
| | 2 | 0.481 | 0.083 | 5.06 | 5.45 | 0.485 | 0.087 | 5.66 |
| | 3 | 0.403 | 0.125 | 4.97 | 5.41 | 0.407 | 0.129 | 5.60 |
| | 4 | 0.311 | 0.193 | 4.93 | 5.41 | 0.315 | 0.197 | 5.59 |
| INFERIOR | 0 | 0.767 | 0.016 | 6.02 | 6.18 | 0.763 | 0.012 | 5.67 |
| | 1 | 0.602 | 0.048 | 5.62 | 5.95 | 0.598 | 0.044 | 5.68 |
| | 2 | 0.512 | 0.082 | 5.54 | 5.95 | 0.508 | 0.078 | 5.74 |
| | 3 | 0.438 | 0.122 | 5.48 | 5.96 | 0.434 | 0.118 | 5.76 |
| | 4 | 0.356 | 0.175 | 5.36 | 5.87 | 0.352 | 0.171 | 5.68 |
| Valor medio | | | | 5.33 | 5.69 | | | 5.68 |
| Desviación típica | | | | 0.32 | | | | 0.06 |

Tabla A.10 Experimento SC 31. CuSO_4 2%-4% ($t_1=3600$ s).

| INTERFEROGRAMA: SC 31-1 $t_1 = 3600$ s $t_2 = 5160$ s $N_s = 4$ $N_i = 4$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.536 | 0.028 | 5.55 | 5.61 | 0.531 | 0.023 | 5.18 |
| | 1 | 0.388 | 0.090 | 5.56 | 5.66 | 0.383 | 0.085 | 5.38 |
| INFERIOR | 0 | 0.492 | 0.028 | 4.81 | 4.87 | 0.497 | 0.033 | 5.25 |
| | 1 | 0.350 | 0.097 | 5.11 | 5.11 | 0.355 | 0.102 | 5.38 |
| Valor medio | | | | 5.23 | 5.31 | | | 5.30 |
| Desviación típica | | | | | | | | 0.10 |

| INTERFEROGRAMA: SC 31-2 $t_1 = 3600$ s $t_2 = 5580$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.555 | 0.023 | 5.25 | 5.32 | 0.554 | 0.022 | 5.23 |
| | 1 | 0.405 | 0.075 | 5.12 | 5.25 | 0.404 | 0.074 | 5.20 |
| | 2 | 0.296 | 0.145 | 5.09 | 5.25 | 0.295 | 0.144 | 5.20 |
| INFERIOR | 0 | 0.550 | 0.023 | 5.16 | 5.24 | 0.551 | 0.024 | 5.33 |
| | 1 | 0.406 | 0.072 | 5.03 | 5.15 | 0.407 | 0.073 | 5.21 |
| | 2 | 0.293 | 0.145 | 5.02 | 5.17 | 0.294 | 0.146 | 5.22 |
| Valor medio | | | | 5.11 | 5.23 | | | 5.23 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.10 (Continuación).

| INTERFEROGRAMA: SC 31-3 $t_1 = 3600$ s $t_2 = 5760$ s $N_s = 6$ $N_l = 5$ | | | | | | | | |
|---|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.553 | 0.021 | 5.00 | 5.07 | 0.556 | 0.024 | 5.34 |
| | 1 | 0.420 | 0.070 | 5.12 | 5.27 | 0.423 | 0.073 | 5.44 |
| | 2 | 0.312 | 0.133 | 4.99 | 5.16 | 0.315 | 0.136 | 5.31 |
| INFERIOR | 0 | 0.585 | 0.021 | 5.49 | 5.57 | 0.582 | 0.018 | 5.27 |
| | 1 | 0.434 | 0.070 | 5.38 | 5.53 | 0.431 | 0.067 | 5.36 |
| | 2 | 0.326 | 0.133 | 5.27 | 5.46 | 0.323 | 0.130 | 5.31 |
| Valor medio | | | | 5.21 | 5.34 | | | 5.34 |
| Desviación típica | | | | | | | | 0.06 |

| INTERFEROGRAMA: SC 31-4 $t_1 = 3600$ s $t_2 = 6180$ s $N_s = 6$ $N_l = 6$ | | | | | | | | |
|---|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.595 | 0.018 | 5.19 | 5.29 | 0.595 | 0.018 | 5.29 |
| | 1 | 0.455 | 0.060 | 5.14 | 5.32 | 0.455 | 0.060 | 5.32 |
| | 2 | 0.365 | 0.110 | 5.15 | 5.38 | 0.365 | 0.110 | 5.38 |
| INFERIOR | 0 | 0.595 | 0.018 | 5.19 | 5.29 | 0.595 | 0.018 | 5.29 |
| | 1 | 0.456 | 0.059 | 5.10 | 5.28 | 0.456 | 0.059 | 5.28 |
| | 2 | 0.360 | 0.111 | 5.10 | 5.32 | 0.360 | 0.111 | 5.32 |
| Valor medio | | | | 5.15 | 5.31 | | | 5.31 |
| Desviación típica | | | | | | | | 0.03 |

Tabla A.10 (Continuación).

| INTERFEROGRAMA: SC 31-5 $t_1 = 3600 \text{ s}$ $t_2 = 6570 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|-------------------|----------------|---|--|-----------------|----------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm ² /s) | $D_{\text{riguroso}} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.593 | 0.018 | 4.97 | 5.08 | 0.597 | 0.022 | 5.46 |
| | 1 | 0.467 | 0.053 | 4.88 | 5.08 | 0.471 | 0.057 | 5.32 |
| | 2 | 0.379 | 0.099 | 4.90 | 5.16 | 0.383 | 0.103 | 5.37 |
| | 3 | 0.292 | 0.159 | 4.83 | 5.12 | 0.296 | 0.163 | 5.31 |
| INFERIOR | 0 | 0.637 | 0.018 | 5.62 | 5.74 | 0.633 | 0.014 | 5.29 |
| | 1 | 0.488 | 0.059 | 5.44 | 5.67 | 0.483 | 0.055 | 5.43 |
| | 2 | 0.398 | 0.097 | 5.20 | 5.47 | 0.394 | 0.093 | 5.26 |
| | 3 | 0.311 | 0.157 | 5.17 | 5.48 | 0.307 | 0.153 | 5.29 |
| Valor medio | | | | 5.13 | 5.35 | | | 5.34 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 31-6 $t_1 = 3600 \text{ s}$ $t_2 = 6770 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|-------------------|----------------|---|--|-----------------|----------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm ² /s) | $D_{\text{riguroso}} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.606 | 0.018 | 4.99 | 5.11 | 0.609 | 0.021 | 5.41 |
| | 1 | 0.482 | 0.053 | 5.00 | 5.22 | 0.485 | 0.056 | 5.40 |
| | 2 | 0.396 | 0.091 | 4.87 | 5.14 | 0.400 | 0.094 | 5.30 |
| | 3 | 0.310 | 0.151 | 4.90 | 5.22 | 0.313 | 0.154 | 5.37 |
| INFERIOR | 0 | 0.645 | 0.018 | 5.55 | 5.68 | 0.642 | 0.015 | 5.34 |
| | 1 | 0.504 | 0.053 | 5.36 | 5.61 | 0.501 | 0.050 | 5.41 |
| | 2 | 0.415 | 0.091 | 5.21 | 5.51 | 0.412 | 0.088 | 5.35 |
| | 3 | 0.333 | 0.142 | 5.12 | 5.45 | 0.330 | 0.139 | 5.31 |
| Valor medio | | | | 5.13 | 5.37 | | | 5.36 |
| Desviación típica | | | | | | | | 0.04 |

Tabla A.10 (Continuación).

| INTERFEROGRAMA: SC 31-7 $t_1 = 3600$ s $t_2 = 6960$ s $N_s = 8$ $N_f = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.604 | 0.016 | 4.74 | 4.85 | 0.608 | 0.020 | 5.25 |
| | 1 | 0.492 | 0.051 | 5.00 | 5.24 | 0.496 | 0.055 | 5.49 |
| | 2 | 0.405 | 0.088 | 4.83 | 5.12 | 0.409 | 0.092 | 5.33 |
| | 3 | 0.329 | 0.138 | 4.88 | 5.21 | 0.333 | 0.142 | 5.41 |
| INFERIOR | 0 | 0.671 | 0.016 | 5.68 | 5.80 | 0.667 | 0.012 | 5.30 |
| | 1 | 0.517 | 0.051 | 5.40 | 5.65 | 0.513 | 0.047 | 5.40 |
| | 2 | 0.424 | 0.089 | 5.22 | 5.53 | 0.420 | 0.085 | 5.32 |
| | 3 | 0.347 | 0.137 | 5.16 | 5.52 | 0.343 | 0.133 | 5.32 |
| Valor medio | | | | 5.11 | 5.37 | | | 5.35 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 31-8 $t_1 = 3600$ s $t_2 = 7560$ s $N_s = 10$ $N_f = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.664 | 0.014 | 5.11 | 5.25 | 0.665 | 0.015 | 5.36 |
| | 1 | 0.524 | 0.046 | 4.99 | 5.28 | 0.525 | 0.047 | 5.34 |
| | 2 | 0.443 | 0.079 | 4.93 | 5.30 | 0.444 | 0.080 | 5.35 |
| | 3 | 0.375 | 0.116 | 4.84 | 5.25 | 0.376 | 0.117 | 5.30 |
| | 4 | 0.287 | 0.184 | 4.89 | 5.34 | 0.288 | 0.185 | 5.39 |
| INFERIOR | 0 | 0.683 | 0.014 | 5.38 | 5.51 | 0.682 | 0.013 | 5.39 |
| | 1 | 0.534 | 0.044 | 5.08 | 5.36 | 0.533 | 0.043 | 5.30 |
| | 2 | 0.454 | 0.079 | 5.11 | 5.48 | 0.453 | 0.078 | 5.43 |
| | 3 | 0.377 | 0.117 | 4.92 | 5.33 | 0.378 | 0.116 | 5.28 |
| | 4 | 0.300 | 0.177 | 4.97 | 5.43 | 0.299 | 0.176 | 5.38 |
| Valor medio | | | | 5.02 | 5.35 | | | 5.35 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.10 (Continuación).

| INTERFEROGRAMA: SC 31-9 $t_1 = 3600$ s $t_2 = 7800$ s $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.673 | 0.014 | 5.09 | 5.23 | 0.673 | 0.014 | 5.23 |
| | 1 | 0.536 | 0.046 | 5.07 | 5.39 | 0.536 | 0.046 | 5.39 |
| | 2 | 0.455 | 0.077 | 4.97 | 5.36 | 0.455 | 0.077 | 5.36 |
| | 3 | 0.385 | 0.112 | 4.83 | 5.26 | 0.385 | 0.112 | 4.83 |
| | 4 | 0.310 | 0.165 | 4.78 | 5.26 | 0.310 | 0.165 | 5.26 |
| INFERIOR | 0 | 0.687 | 0.014 | 5.28 | 5.42 | 0.687 | 0.014 | 5.42 |
| | 1 | 0.541 | 0.043 | 5.03 | 5.33 | 0.541 | 0.043 | 5.33 |
| | 2 | 0.461 | 0.075 | 5.00 | 5.39 | 0.461 | 0.075 | 5.39 |
| | 3 | 0.391 | 0.109 | 4.82 | 5.25 | 0.391 | 0.109 | 5.25 |
| | 4 | 0.312 | 0.163 | 4.77 | 5.25 | 0.312 | 0.163 | 5.25 |
| Valor medio | | | | 4.96 | 5.31 | 5.31 | | |
| Desviación típica | | | | 0.07 | | 0.07 | | |



Tabla A.11 Experimento SC 32. CuSO_4 2%-4% ($t_1 = 3900$ s).

| INTERFEROGRAMA: SC 32-1 $t_1 = 3900$ s $t_2 = 6300$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.656 | 0.021 | 6.15 | 6.24 | 0.647 | 0.012 | 5.23 |
| | 1 | 0.482 | 0.067 | 5.68 | 5.84 | 0.473 | 0.058 | 5.31 |
| | 2 | 0.381 | 0.121 | 5.57 | 5.76 | 0.372 | 0.112 | 5.31 |
| INFERIOR | 0 | 0.542 | 0.021 | 4.44 | 4.51 | 0.551 | 0.030 | 5.21 |
| | 1 | 0.415 | 0.069 | 4.58 | 4.71 | 0.424 | 0.078 | 5.19 |
| | 2 | 0.309 | 0.137 | 4.60 | 4.77 | 0.318 | 0.146 | 5.19 |
| Valor medio | | | | 5.17 | 5.31 | | | 5.24 |
| Desviación típica | | | | | | | | 0.05 |

| INTERFEROGRAMA: SC 32-2 $t_1 = 3900$ s $t_2 = 6780$ s $N_s = 8$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.704 | 0.020 | 6.46 | 6.57 | 0.693 | 0.009 | 5.14 |
| | 1 | 0.512 | 0.059 | 5.59 | 5.79 | 0.501 | 0.048 | 5.11 |
| | 2 | 0.408 | 0.106 | 5.40 | 5.64 | 0.397 | 0.095 | 5.09 |
| | 3 | 0.322 | 0.172 | 5.54 | 5.82 | 0.311 | 0.161 | 5.29 |
| INFERIOR | 0 | 0.551 | 0.020 | 4.25 | 4.34 | 0.562 | 0.031 | 5.20 |
| | 1 | 0.438 | 0.062 | 4.50 | 4.67 | 0.449 | 0.073 | 5.26 |
| | 2 | 0.344 | 0.115 | 4.50 | 4.71 | 0.355 | 0.126 | 5.22 |
| Valor medio | | | | 5.18 | 5.26 | | | 5.19 |
| Desviación típica | | | | | | | | 0.08 |

Tabla A 11 (Continuación).

| INTERFEROGRAMA: SC 32-3 $t_1 = 3900 \text{ s}$ $t_2 = 7140 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.660 | 0.018 | 5.46 | 5.57 | 0.657 | 0.015 | 5.25 |
| | 1 | 0.509 | 0.053 | 5.15 | 5.36 | 0.506 | 0.050 | 5.18 |
| | 2 | 0.415 | 0.096 | 5.04 | 5.30 | 0.412 | 0.093 | 5.15 |
| | 3 | 0.330 | 0.154 | 5.06 | 5.36 | 0.327 | 0.151 | 5.23 |
| INFERIOR | 0 | 0.615 | 0.018 | 4.84 | 4.94 | 0.618 | 0.021 | 5.22 |
| | 1 | 0.481 | 0.055 | 4.78 | 4.98 | 0.484 | 0.058 | 5.15 |
| | 2 | 0.390 | 0.103 | 4.81 | 5.07 | 0.393 | 0.106 | 5.22 |
| | 3 | 0.295 | 0.174 | 4.89 | 5.18 | 0.298 | 0.177 | 5.32 |
| Valor medio | | | | 5.00 | 5.22 | | | 5.21 |
| Desviación típica | | | | | | | | 0.06 |

| INTERFEROGRAMA: SC 32-4 $t_1 = 3900 \text{ s}$ $t_2 = 7500 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.680 | 0.016 | 5.43 | 5.55 | 0.677 | 0.013 | 5.20 |
| | 1 | 0.522 | 0.052 | 5.14 | 5.38 | 0.519 | 0.049 | 5.20 |
| | 2 | 0.433 | 0.090 | 5.00 | 5.29 | 0.430 | 0.087 | 5.14 |
| | 3 | 0.359 | 0.136 | 5.01 | 5.34 | 0.356 | 0.133 | 5.20 |
| INFERIOR | 0 | 0.634 | 0.016 | 4.80 | 4.91 | 0.637 | 0.019 | 5.20 |
| | 1 | 0.501 | 0.052 | 4.81 | 5.04 | 0.504 | 0.055 | 5.21 |
| | 2 | 0.415 | 0.092 | 4.75 | 5.04 | 0.418 | 0.095 | 5.18 |
| | 3 | 0.338 | 0.151 | 4.98 | 5.33 | 0.341 | 0.154 | 5.47 |
| Valor medio | | | | 4.99 | 5.24 | | | 5.23 |
| Desviación típica | | | | | | | | 0.10 |

Tabla A.11 (Continuación).

| INTERFEROGRAMA: SC 32-5 $t_1 = 3900$ s $t_2 = 7860$ s $N_s = 10$ $N_i = 8$ | | | | | | | | |
|--|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.712 | 0.016 | 5.68 | 5.82 | 0.707 | 0.011 | 5.19 |
| | 1 | 0.544 | 0.052 | 5.28 | 5.56 | 0.539 | 0.047 | 5.25 |
| | 2 | 0.456 | 0.088 | 5.17 | 5.51 | 0.451 | 0.083 | 5.25 |
| | 3 | 0.385 | 0.128 | 5.17 | 5.48 | 0.380 | 0.123 | 5.24 |
| | 4 | 0.293 | 0.197 | 5.04 | 5.46 | 0.288 | 0.192 | 5.24 |
| INFERIOR | 0 | 0.631 | 0.016 | 4.60 | 4.72 | 0.636 | 0.021 | 5.19 |
| | 1 | 0.510 | 0.048 | 4.64 | 4.88 | 0.515 | 0.053 | 5.17 |
| | 2 | 0.428 | 0.085 | 4.64 | 4.95 | 0.433 | 0.090 | 5.20 |
| | 3 | 0.354 | 0.131 | 4.64 | 5.00 | 0.359 | 0.136 | 5.23 |
| Valor medio | | | | 4.98 | 5.23 | | | |
| Desviación típica | | | | | | 0.03 | | |

| INTERFEROGRAMA: SC 32-6 $t_1 = 3900$ s $t_2 = 10350$ s $N_s = 12$ $N_i = 12$ | | | | | | | | |
|--|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.744 | 0.013 | 4.75 | 4.92 | 0.747 | 0.016 | 5.27 |
| | 1 | 0.614 | 0.036 | 4.64 | 5.03 | 0.617 | 0.039 | 5.23 |
| | 2 | 0.532 | 0.061 | 4.51 | 5.02 | 0.535 | 0.064 | 5.18 |
| | 3 | 0.470 | 0.083 | 4.48 | 5.06 | 0.473 | 0.091 | 5.21 |
| | 4 | 0.404 | 0.123 | 4.37 | 5.02 | 0.407 | 0.126 | 5.15 |
| | 5 | 0.338 | 0.170 | 4.36 | 5.05 | 0.341 | 0.173 | 5.18 |
| INFERIOR | 0 | 0.800 | 0.013 | 5.40 | 5.58 | 0.797 | 0.010 | 5.15 |
| | 1 | 0.633 | 0.039 | 5.05 | 5.49 | 0.630 | 0.036 | 5.28 |
| | 2 | 0.551 | 0.061 | 4.77 | 5.30 | 0.548 | 0.058 | 5.13 |
| | 3 | 0.485 | 0.095 | 4.86 | 5.50 | 0.482 | 0.092 | 5.35 |
| | 4 | 0.422 | 0.127 | 4.74 | 5.43 | 0.419 | 0.124 | 5.29 |
| | 5 | 0.360 | 0.169 | 4.67 | 5.41 | 0.357 | 0.166 | 5.28 |
| Valor medio | | | | 4.72 | 5.23 | | | |
| Desviación típica | | | | | | 0.07 | | |

Tabla A.12 Experimento SC 41. CuSO_4 4%-6% ($t_1 = 3420$ s).

| INTERFEROGRAMA: SC 41-1 $t_1 = 3420$ s $t_2 = 5400$ s $N_e = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.484 | 0.022 | 4.26 | 4.33 | 0.494 | 0.032 | 5.11 |
| | 1 | 0.368 | 0.067 | 4.34 | 4.46 | 0.378 | 0.077 | 5.00 |
| | 3 | 0.261 | 0.137 | 4.34 | 4.49 | 0.271 | 0.147 | 4.97 |
| INFERIOR | 0 | 0.599 | 0.022 | 6.11 | 6.20 | 0.589 | 0.012 | 5.05 |
| | 1 | 0.432 | 0.065 | 5.46 | 5.61 | 0.422 | 0.055 | 5.00 |
| | 2 | 0.328 | 0.123 | 5.33 | 5.50 | 0.318 | 0.113 | 4.98 |
| Valor medio | | | | 4.97 | 5.10 | | | 5.02 |
| Desviación típica | | | | | | | | 0.77 |
| | | | | | | | | 0.05 |

| INTERFEROGRAMA: SC 41-2 $t_1 = 3420$ s $t_2 = 5640$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.520 | 0.018 | 4.43 | 4.51 | 0.527 | 0.025 | 5.12 |
| | 1 | 0.392 | 0.060 | 4.39 | 4.53 | 0.399 | 0.067 | 4.92 |
| | 2 | 0.301 | 0.117 | 4.51 | 4.69 | 0.308 | 0.124 | 5.03 |
| INFERIOR | 0 | 0.610 | 0.018 | 5.83 | 5.92 | 0.603 | 0.011 | 5.07 |
| | 1 | 0.451 | 0.060 | 5.45 | 5.62 | 0.444 | 0.053 | 5.18 |
| | 2 | 0.354 | 0.1085 | 5.29 | 5.49 | 0.347 | 0.101 | 5.12 |
| Valor medio | | | | 4.98 | 5.13 | | | 5.06 |
| Desviación típica | | | | | | | | 0.62 |
| | | | | | | | | 0.10 |

Tabla A.12 (Continuación).

| INTERFEROGRAMA: SC 41-3 $t_1 = 3420$ s $t_2 = 5940$ s $N_s = 6$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.529 | 0.017 | 4.35 | 4.44 | 0.537 | 0.025 | 5.14 |
| | 1 | 0.410 | 0.057 | 4.45 | 4.62 | 0.418 | 0.065 | 5.07 |
| | 2 | 0.323 | 0.104 | 4.41 | 4.61 | 0.331 | 0.112 | 5.00 |
| INFERIOR | 0 | 0.639 | 0.017 | 6.02 | 6.13 | 0.631 | 0.009 | 5.07 |
| | 1 | 0.477 | 0.053 | 5.46 | 5.65 | 0.469 | 0.045 | 5.13 |
| | 2 | 0.383 | 0.095 | 5.26 | 5.49 | 0.375 | 0.087 | 5.06 |
| | 3 | 0.293 | 0.158 | 5.25 | 5.52 | 0.285 | 0.150 | 5.12 |
| Valor medio | | | | 5.03 | 5.13 | | | 5.08 |
| Desviación típica | | | | | | | | 0.05 |

| INTERFEROGRAMA: SC 41-4 $t_1 = 3420$ s $t_2 = 6300$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.560 | 0.016 | 4.55 | 4.65 | 0.564 | 0.020 | 5.04 |
| | 1 | 0.446 | 0.049 | 4.56 | 4.75 | 0.450 | 0.053 | 4.99 |
| | 2 | 0.363 | 0.090 | 4.57 | 4.81 | 0.367 | 0.094 | 5.02 |
| | 3 | 0.279 | 0.146 | 4.49 | 4.75 | 0.283 | 0.150 | 4.94 |
| INFERIOR | 0 | 0.622 | 0.016 | 5.46 | 5.57 | 0.618 | 0.012 | 5.09 |
| | 1 | 0.480 | 0.049 | 5.12 | 5.34 | 0.476 | 0.045 | 5.08 |
| | 2 | 0.392 | 0.086 | 4.97 | 5.23 | 0.388 | 0.082 | 5.02 |
| | 3 | 0.313 | 0.140 | 5.02 | 5.32 | 0.309 | 0.136 | 5.12 |
| Valor medio | | | | 4.84 | 5.05 | | | 5.04 |
| Desviación típica | | | | | | | | 0.06 |

Tabla A.12 (Continuación).

| INTERFEROGRAMA: SC 41-5 $t_1 = 3420 \text{ s}$ $t_2 = 6720 \text{ s}$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.587 | 0.014 | 4.57 | 4.68 | 0.592 | 0.019 | 5.19 |
| | 1 | 0.464 | 0.045 | 4.51 | 4.73 | 0.469 | 0.050 | 5.04 |
| | 2 | 0.385 | 0.079 | 4.42 | 4.70 | 0.390 | 0.084 | 4.96 |
| | 3 | 0.317 | 0.122 | 4.42 | 4.74 | 0.322 | 0.127 | 4.98 |
| INFERIOR | 0 | 0.662 | 0.014 | 5.64 | 5.76 | 0.657 | 0.009 | 5.08 |
| | 1 | 0.504 | 0.045 | 5.14 | 5.38 | 0.499 | 0.040 | 5.05 |
| | 2 | 0.421 | 0.079 | 5.04 | 5.35 | 0.416 | 0.074 | 5.08 |
| | 3 | 0.345 | 0.122 | 4.95 | 5.31 | 0.340 | 0.117 | 5.06 |
| Valor medio | | | | 4.84 | 5.08 | | | 5.05 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 41-6 $t_1 = 3420 \text{ s}$ $t_2 = 7300 \text{ s}$ $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.601 | 0.013 | 4.35 | 4.47 | 0.608 | 0.020 | 5.20 |
| | 1 | 0.486 | 0.040 | 4.36 | 4.61 | 0.493 | 0.047 | 5.05 |
| | 2 | 0.408 | 0.070 | 4.28 | 4.61 | 0.415 | 0.077 | 4.97 |
| | 3 | 0.344 | 0.108 | 4.28 | 4.66 | 0.351 | 0.115 | 4.99 |
| | 4 | 0.263 | 0.167 | 4.24 | 4.65 | 0.270 | 0.174 | 4.90 |
| INFERIOR | 0 | 0.730 | 0.013 | 6.12 | 6.26 | 0.723 | 0.006 | 5.04 |
| | 1 | 0.540 | 0.040 | 5.17 | 5.46 | 0.533 | 0.033 | 4.96 |
| | 2 | 0.460 | 0.070 | 5.13 | 5.51 | 0.453 | 0.063 | 5.11 |
| | 3 | 0.389 | 0.104 | 4.97 | 5.39 | 0.382 | 0.097 | 5.04 |
| | 4 | 0.320 | 0.149 | 4.90 | 5.36 | 0.313 | 0.142 | 5.03 |
| Valor medio | | | | 4.78 | 5.10 | | | 5.04 |
| Desviación típica | | | | | | | | 0.07 |

Tabla A.13 Experimento SC 42. CuSO_4 4%-6% ($t_1 = 3840$ s).

| INTERFEROGRAMA: SC 42-1 $t_1 = 3840$ s $t_2 = 5640$ s $N_s = 4$ $N_l = 4$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.529 | 0.027 | 4.97 | 5.04 | 0.529 | 0.027 | 5.04 |
| | 1 | 0.381 | 0.088 | 4.92 | 5.03 | 0.381 | 0.088 | 5.03 |
| INFERIOR | 0 | 0.527 | 0.027 | 4.95 | 5.01 | 0.527 | 0.027 | 5.01 |
| | 1 | 0.372 | 0.093 | 4.95 | 5.03 | 0.372 | 0.093 | 5.03 |
| Valor medio | | | | 4.94 | 5.03 | | | 5.03 |
| Desviación típica | | | | | | | | 0.01 |

| INTERFEROGRAMA: SC 42-2 $t_1 = 3840$ s $t_2 = 6060$ s $N_s = 6$ $N_l = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.593 | 0.024 | 5.50 | 5.58 | 0.587 | 0.018 | 5.02 |
| | 1 | 0.434 | 0.078 | 5.08 | 5.51 | 0.428 | 0.072 | 5.17 |
| | 2 | 0.322 | 0.139 | 5.08 | 5.24 | 0.316 | 0.133 | 4.96 |
| INFERIOR | 0 | 0.524 | 0.024 | 4.47 | 4.54 | 0.530 | 0.030 | 4.99 |
| | 1 | 0.391 | 0.078 | 4.59 | 4.73 | 0.397 | 0.084 | 5.03 |
| | 2 | 0.274 | 0.157 | 4.56 | 4.71 | 0.280 | 0.163 | 4.99 |
| Valor medio | | | | 4.93 | 5.03 | | | 5.03 |
| Desviación típica | | | | | | | | 0.08 |

Tabla A.13 (Continuación).

| INTERFEROGRAMA: SC 42-3 $t_1 = 3840$ s $t_2 = 6240$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.616 | 0.021 | 5.59 | 5.68 | 0.611 | 0.016 | 5.18 |
| | 1 | 0.452 | 0.067 | 5.18 | 5.33 | 0.447 | 0.062 | 5.05 |
| | 2 | 0.353 | 0.121 | 5.09 | 5.28 | 0.348 | 0.116 | 5.04 |
| INFERIOR | 0 | 0.540 | 0.022 | 4.52 | 4.60 | 0.545 | 0.027 | 4.99 |
| | 1 | 0.411 | 0.073 | 4.68 | 4.83 | 0.416 | 0.078 | 5.09 |
| | 2 | 0.306 | 0.139 | 4.67 | 4.85 | 0.311 | 0.144 | 5.08 |
| Valor medio | | | | 4.96 | 5.09 | | | 5.07 |
| Desviación típica | | | | | | | | 0.06 |

| INTERFEROGRAMA: SC 42-4 $t_1 = 3840$ s $t_2 = 6660$ s $N_s = 8$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.665 | 0.020 | 5.99 | 6.10 | 0.656 | 0.011 | 5.05 |
| | 1 | 0.490 | 0.059 | 5.38 | 5.51 | 0.481 | 0.050 | 4.98 |
| | 2 | 0.395 | 0.103 | 5.15 | 5.38 | 0.386 | 0.094 | 4.93 |
| | 3 | 0.304 | 0.169 | 5.19 | 5.45 | 0.295 | 0.160 | 5.03 |
| INFERIOR | 0 | 0.540 | 0.020 | 4.19 | 4.28 | 0.549 | 0.029 | 4.98 |
| | 1 | 0.421 | 0.064 | 4.36 | 4.53 | 0.430 | 0.073 | 4.99 |
| | 2 | 0.335 | 0.113 | 4.35 | 4.55 | 0.344 | 0.122 | 4.96 |
| Valor medio | | | | 4.94 | 5.11 | | | 4.99 |
| Desviación típica | | | | | | | | 0.04 |

Tabla A.13 (continuación).

| INTERFEROGRAMA: SC 42-5 $t_1 = 3840$ s $t_2 = 6900$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.596 | 0.018 | 4.74 | 4.84 | 0.597 | 0.019 | 4.93 |
| | 1 | 0.462 | 0.058 | 4.72 | 4.91 | 0.463 | 0.059 | 4.97 |
| | 2 | 0.380 | 0.102 | 4.74 | 4.98 | 0.381 | 0.103 | 5.02 |
| | 3 | 0.286 | 0.166 | 4.65 | 4.91 | 0.287 | 0.167 | 4.95 |
| INFERIOR | 0 | 0.611 | 0.018 | 4.95 | 5.06 | 0.610 | 0.017 | 4.96 |
| | 1 | 0.472 | 0.058 | 4.89 | 5.09 | 0.471 | 0.057 | 5.03 |
| | 2 | 0.380 | 0.100 | 4.69 | 4.92 | 0.379 | 0.099 | 4.87 |
| | 3 | 0.281 | 0.177 | 4.78 | 5.06 | 0.280 | 0.178 | 5.01 |
| Valor medio | | | | 4.77 | 4.97 | | | 4.97 |
| Desviación típica | | | | | | | | 0.05 |

| INTERFEROGRAMA: SC 42-6 $t_1 = 3840$ s $t_2 = 7260$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.577 | 0.017 | 4.23 | 4.33 | 0.584 | 0.024 | 4.93 |
| | 1 | 0.458 | 0.053 | 4.32 | 4.52 | 0.465 | 0.060 | 4.91 |
| | 2 | 0.376 | 0.093 | 4.28 | 4.53 | 0.383 | 0.100 | 4.86 |
| | 3 | 0.299 | 0.156 | 4.50 | 4.88 | 0.306 | 0.163 | 5.12 |
| INFERIOR | 0 | 0.692 | 0.016 | 5.76 | 5.32 | 0.685 | 0.009 | 4.99 |
| | 1 | 0.511 | 0.052 | 5.09 | 5.32 | 0.504 | 0.045 | 4.90 |
| | 2 | 0.424 | 0.093 | 5.08 | 5.37 | 0.417 | 0.086 | 5.02 |
| | 3 | 0.341 | 0.141 | 4.93 | 5.22 | 0.334 | 0.134 | 4.94 |
| Valor medio | | | | 4.77 | 5.00 | | | 4.95 |
| Desviación típica | | | | | | | | 0.08 |

Tabla A.13 (Continuación).

| INTERFEROGRAMA: SC 42-7 $t_1 = 3840$ s $t_2 = 7860$ $N_s = 8$ $N_i = 10$ | | | | | | | | |
|--|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{aprox} \times 10^6$ (cm ² /s) | $D_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.602 | 0.015 | 4.17 | 4.29 | 0.609 | 0.022 | 4.91 |
| | 1 | 0.484 | 0.048 | 4.30 | 4.55 | 0.491 | 0.055 | 4.94 |
| | 2 | 0.408 | 0.084 | 4.30 | 4.61 | 0.415 | 0.091 | 4.94 |
| | 3 | 0.333 | 0.130 | 4.27 | 4.62 | 0.340 | 0.137 | 4.92 |
| INFERIOR | 0 | 0.737 | 0.014 | 5.88 | 5.68 | 0.730 | 0.007 | 4.98 |
| | 1 | 0.551 | 0.045 | 5.16 | 5.43 | 0.544 | 0.038 | 4.98 |
| | 2 | 0.460 | 0.082 | 5.08 | 5.43 | 0.453 | 0.075 | 5.06 |
| | 3 | 0.386 | 0.121 | 4.94 | 5.33 | 0.379 | 0.114 | 5.00 |
| | 4 | 0.294 | 0.186 | 4.83 | 5.25 | 0.287 | 0.179 | 4.94 |
| Valor medio | | | | 4.77 | 5.00 | 4.96 | | |
| Desviación típica | | | | 0.57 | | 0.05 | | |

Tabla A.14 Experimento SC 51. CuSO_4 6%-8% ($t_1=3000$ s)=

| INTERFEROGRAMA: SC 51-1 $t_1 = 3000$ s $t_2 = 4560$ s $N_s = 4$ $N_i = 4$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm^2/s) | $D_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.437 | 0.020 | 4.09 | 4.14 | 0.442 | 0.026 | 4.63 |
| | 1 | 0.319 | 0.070 | 4.20 | 4.30 | 0.325 | 0.076 | 4.63 |
| INFERIOR | 0 | 0.495 | 0.020 | 5.07 | 5.13 | 0.489 | 0.014 | 4.52 |
| | 1 | 0.359 | 0.068 | 4.94 | 5.06 | 0.353 | 0.062 | 4.70 |
| Valor medio | | | | 4.57 | 4.66 | | | 4.62 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 51-2 $t_1 = 3000$ s $t_2 = 4800$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{aprox}} \times 10^6$ (cm^2/s) | $D_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.450 | 0.020 | 4.13 | 4.20 | 0.456 | 0.026 | 4.70 |
| | 1 | 0.338 | 0.062 | 4.17 | 4.29 | 0.344 | 0.068 | 4.63 |
| | 2 | 0.248 | 0.120 | 4.15 | 4.30 | 0.254 | 0.126 | 4.60 |
| INFERIOR | 0 | 0.516 | 0.020 | 5.20 | 5.29 | 0.510 | 0.014 | 4.65 |
| | 1 | 0.384 | 0.059 | 4.90 | 5.04 | 0.378 | 0.053 | 4.67 |
| | 2 | 0.293 | 0.105 | 4.68 | 4.84 | 0.287 | 0.099 | 4.52 |
| Valor medio | | | | 4.54 | 4.66 | | | 4.63 |
| Desviación típica | | | | | | | | 0.06 |

Tabla A.14 (Continuación).

| INTERFEROGRAMA: SC 51-3 $t_1 = 3000$ s $t_2 = 5040$ s $N_s = 6$ $N_l = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.437 | 0.018 | 4.09 | 4.17 | 0.471 | 0.025 | 4.77 |
| | 1 | 0.355 | 0.057 | 4.17 | 4.31 | 0.362 | 0.064 | 4.71 |
| | 2 | 0.274 | 0.103 | 4.08 | 4.25 | 0.281 | 0.110 | 4.60 |
| INFERIOR | 0 | 0.547 | 0.018 | 5.42 | 5.51 | 0.540 | 0.011 | 4.68 |
| | 1 | 0.404 | 0.052 | 4.86 | 5.02 | 0.397 | 0.045 | 4.57 |
| | 2 | 0.320 | 0.099 | 4.90 | 5.10 | 0.313 | 0.092 | 4.72 |
| Valor medio | | | | 4.59 | 4.73 | | | 4.68 |
| Desviación típica | | | | | | | | 0.08 |

| INTERFEROGRAMA: SC 51-4 $t_1 = 3000$ s $t_2 = 5400$ s $N_s = 6$ $N_l = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.499 | 0.015 | 4.25 | 4.34 | 0.502 | 0.018 | 4.63 |
| | 1 | 0.393 | 0.049 | 4.34 | 4.52 | 0.396 | 0.052 | 4.71 |
| | 2 | 0.315 | 0.088 | 4.26 | 4.48 | 0.318 | 0.091 | 4.64 |
| INFERIOR | 0 | 0.545 | 0.015 | 4.94 | 5.04 | 0.542 | 0.012 | 4.68 |
| | 1 | 0.415 | 0.046 | 4.58 | 4.76 | 0.412 | 0.043 | 4.57 |
| | 2 | 0.337 | 0.085 | 4.58 | 4.81 | 0.338 | 0.082 | 4.64 |
| Valor medio | | | | 4.49 | 4.66 | | | 4.65 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.14 (Continuación).

| INTERFEROGRAMA: SC 51-5 $t_1 = 3000$ s $t_2 = 5650$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.509 | 0.015 | 4.26 | 4.36 | 0.512 | 0.018 | 4.66 |
| | 1 | 0.402 | 0.048 | 4.31 | 4.51 | 0.408 | 0.051 | 4.69 |
| | 2 | 0.329 | 0.080 | 4.15 | 4.39 | 0.332 | 0.083 | 4.54 |
| | 3 | 0.261 | 0.129 | 4.21 | 4.84 | 0.264 | 0.132 | 4.63 |
| INFERIOR | 0 | 0.551 | 0.015 | 4.90 | 5.01 | 0.548 | 0.012 | 4.66 |
| | 1 | 0.431 | 0.044 | 4.65 | 4.86 | 0.428 | 0.041 | 4.66 |
| | 2 | 0.349 | 0.080 | 4.52 | 4.78 | 0.346 | 0.077 | 4.62 |
| | 3 | 0.279 | 0.125 | 4.49 | 4.78 | 0.276 | 0.122 | 4.63 |
| Valor medio | | | | 4.44 | 4.65 | | | 4.64 |
| Desviación típica | | | | | | | | 0.04 |

| INTERFEROGRAMA: SC 51-6 $t_1 = 3000$ s $t_2 = 5940$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.546 | 0.014 | 4.51 | 4.62 | 0.547 | 0.015 | 4.73 |
| | 1 | 0.425 | 0.042 | 4.35 | 4.57 | 0.426 | 0.043 | 4.63 |
| | 2 | 0.353 | 0.073 | 4.22 | 4.49 | 0.354 | 0.074 | 4.55 |
| | 3 | 0.290 | 0.114 | 4.24 | 4.56 | 0.291 | 0.115 | 4.61 |
| INFERIOR | 0 | 0.556 | 0.014 | 4.65 | 4.77 | 0.555 | 0.013 | 4.65 |
| | 1 | 0.432 | 0.042 | 4.46 | 4.68 | 0.431 | 0.041 | 4.62 |
| | 2 | 0.364 | 0.073 | 4.43 | 4.71 | 0.363 | 0.072 | 4.66 |
| | 3 | 0.300 | 0.114 | 4.44 | 4.77 | 0.299 | 0.113 | 4.72 |
| Valor medio | | | | 4.41 | 4.65 | | | 4.65 |
| Desviación típica | | | | | | | | 0.06 |

Tabla A.15 Experimento SC 52. CuSO_4 6%-8% ($t_1 = 2700$ s).

| INTERFEROGRAMA: SC 52-1 $t_1 = 2700$ s $t_2 = 4440$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.426 | 0.019 | 4.07 | 4.15 | 0.431 | 0.024 | 4.58 |
| | 1 | 0.329 | 0.060 | 4.32 | 4.46 | 0.334 | 0.065 | 4.76 |
| | 2 | 0.233 | 0.120 | 4.21 | 4.38 | 0.238 | 0.125 | 4.64 |
| INFERIOR | 0 | 0.493 | 0.019 | 5.21 | 5.30 | 0.488 | 0.014 | 4.75 |
| | 1 | 0.350 | 0.062 | 4.80 | 4.96 | 0.345 | 0.057 | 4.65 |
| | 2 | 0.257 | 0.118 | 4.71 | 4.89 | 0.252 | 0.113 | 4.62 |
| Valor medio | | | | 4.55 | 4.69 | | | 4.67 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 52-2 $t_1 = 2700$ s $t_2 = 4740$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.448 | 0.017 | 4.42 | 4.21 | 0.453 | 0.022 | 4.66 |
| | 1 | 0.351 | 0.051 | 4.20 | 4.37 | 0.356 | 0.056 | 4.67 |
| | 2 | 0.270 | 0.098 | 4.18 | 4.39 | 0.275 | 0.103 | 4.65 |
| INFERIOR | 0 | 0.513 | 0.017 | 5.20 | 5.30 | 0.508 | 0.012 | 4.71 |
| | 1 | 0.384 | 0.051 | 4.82 | 5.01 | 0.379 | 0.046 | 4.68 |
| | 2 | 0.304 | 0.090 | 4.66 | 4.88 | 0.299 | 0.085 | 4.60 |
| Valor medio | | | | 4.53 | 4.69 | | | 4.66 |
| Desviación típica | | | | | | | | 0.04 |

Tabla A.15 (Continuación).

| INTERFEROGRAMA: SC 52-3 $t_1 = 2700$ s $t_2 = 5040$ s $N_s = 6$ $N_l = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.475 | 0.014 | 4.15 | 4.25 | 0.479 | 0.018 | 4.66 |
| | 1 | 0.370 | 0.046 | 4.19 | 4.38 | 0.374 | 0.050 | 4.63 |
| | 2 | 0.296 | 0.084 | 4.14 | 4.38 | 0.300 | 0.088 | 4.59 |
| INFERIOR | 0 | 0.527 | 0.014 | 4.97 | 5.08 | 0.523 | 0.010 | 4.57 |
| | 1 | 0.398 | 0.045 | 4.65 | 4.86 | 0.394 | 0.041 | 4.59 |
| | 2 | 0.325 | 0.082 | 4.63 | 4.90 | 0.321 | 0.078 | 4.67 |
| | 3 | 0.233 | 0.146 | 4.57 | 4.86 | 0.229 | 0.142 | 4.66 |
| Valor medio | | | | 4.47 | 4.63 | | | 4.62 |
| Desviación típica | | | | 0.33 | | | | 0.04 |

| INTERFEROGRAMA: SC 52-4 $t_1 = 2700$ s $t_2 = 5280$ s $N_s = 8$ $N_l = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.481 | 0.013 | 4.04 | 4.15 | 0.486 | 0.018 | 4.65 |
| | 1 | 0.376 | 0.046 | 4.14 | 4.36 | 0.381 | 0.051 | 4.67 |
| | 2 | 0.310 | 0.078 | 4.07 | 4.34 | 0.315 | 0.083 | 4.61 |
| | 3 | 0.237 | 0.132 | 4.16 | 4.47 | 0.242 | 0.137 | 4.72 |
| INFERIOR | 0 | 0.558 | 0.013 | 5.23 | 5.35 | 0.553 | 0.008 | 4.64 |
| | 1 | 0.422 | 0.042 | 4.79 | 5.03 | 0.417 | 0.037 | 4.68 |
| | 2 | 0.347 | 0.076 | 4.73 | 5.03 | 0.342 | 0.071 | 4.74 |
| | 3 | 0.283 | 0.114 | 4.62 | 4.95 | 0.278 | 0.109 | 4.69 |
| Valor medio | | | | 4.47 | 4.71 | | | 4.68 |
| Desviación típica | | | | 0.43 | | | | 0.04 |

Tabla A.15 (Continuación).

| INTERFEROGRAMA: SC 52-5 $t_1 = 2700$ s $t_2 = 5710$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.518 | 0.013 | 4.34 | 4.46 | 0.521 | 0.016 | 4.80 |
| | 1 | 0.405 | 0.039 | 4.20 | 4.44 | 0.408 | 0.042 | 4.64 |
| | 2 | 0.338 | 0.070 | 4.16 | 4.47 | 0.341 | 0.073 | 4.63 |
| | 3 | 0.275 | 0.107 | 4.10 | 4.44 | 0.278 | 0.110 | 4.59 |
| INFERIOR | 0 | 0.555 | 0.013 | 4.89 | 5.02 | 0.552 | 0.010 | 4.61 |
| | 1 | 0.431 | 0.039 | 4.63 | 4.90 | 0.428 | 0.036 | 4.69 |
| | 2 | 0.359 | 0.070 | 4.55 | 4.88 | 0.356 | 0.067 | 4.71 |
| | 3 | 0.296 | 0.104 | 4.42 | 4.79 | 0.293 | 0.101 | 4.63 |
| Valor medio | | | | 4.41 | 4.67 | | | 4.66 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 52-6 $t_1 = 2700$ s $t_2 = 6180$ s $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.535 | 0.011 | 4.39 | 4.52 | 0.558 | 0.014 | 4.90 |
| | 1 | 0.439 | 0.035 | 4.25 | 4.55 | 0.442 | 0.038 | 4.76 |
| | 2 | 0.370 | 0.059 | 4.08 | 4.45 | 0.373 | 0.077 | 4.62 |
| | 3 | 0.316 | 0.089 | 4.09 | 4.51 | 0.319 | 0.092 | 4.67 |
| | 4 | 0.252 | 0.130 | 3.97 | 4.42 | 0.255 | 0.133 | 4.57 |
| INFERIOR | 0 | 0.600 | 0.011 | 5.03 | 5.17 | 0.597 | 0.008 | 4.70 |
| | 1 | 0.462 | 0.034 | 4.57 | 4.88 | 0.459 | 0.031 | 4.65 |
| | 2 | 0.394 | 0.059 | 4.47 | 4.86 | 0.391 | 0.056 | 4.68 |
| | 3 | 0.332 | 0.088 | 4.33 | 4.77 | 0.329 | 0.085 | 4.61 |
| | 4 | 0.282 | 0.123 | 4.37 | 4.85 | 0.279 | 0.120 | 4.70 |
| Valor medio | | | | 4.36 | 4.70 | | | 4.69 |
| Desviación típica | | | | | | | | 0.09 |

Tabla A.16 Experimento SC 6'. CuSO_4 8%-10% ($t_1 = 3000$ s).

| INTERFEROGRAMA: SC 61-1 $t_1 = 3000$ s $t_2 = 4500$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.407 | 0.019 | 3.58 | 3.62 | 0.415 | 0.027 | 4.23 |
| | 1 | 0.307 | 0.063 | 3.80 | 3.89 | 0.315 | 0.071 | 4.31 |
| | 2 | 0.252 | 0.125 | 4.55 | 3.86 | 0.219 | 0.136 | 4.24 |
| INFERIOR | 0 | 0.497 | 0.019 | 5.03 | 5.09 | 0.489 | 0.011 | 4.22 |
| | 1 | 0.358 | 0.065 | 4.84 | 4.95 | 0.350 | 0.057 | 4.74 |
| | 2 | 0.252 | 0.125 | 4.55 | 4.67 | 0.244 | 0.115 | 4.26 |
| Valor medio | | | | 4.26 | 4.35 | | | 4.29 |
| Desviación típica | | | | | | | | 0.10 |

| INTERFEROGRAMA: SC 61-2 $t_1 = 3000$ s $t_2 = 4740$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.449 | 0.017 | 3.98 | 4.04 | 0.453 | 0.021 | 4.38 |
| | 1 | 0.337 | 0.055 | 3.93 | 4.05 | 0.341 | 0.059 | 4.27 |
| | 2 | 0.253 | 0.103 | 3.84 | 3.97 | 0.257 | 0.107 | 4.16 |
| INFERIOR | 0 | 0.493 | 0.017 | 4.67 | 4.74 | 0.489 | 0.013 | 4.32 |
| | 1 | 0.370 | 0.055 | 4.53 | 4.65 | 0.366 | 0.051 | 4.41 |
| | 2 | 0.277 | 0.106 | 4.42 | 4.56 | 0.273 | 0.102 | 4.36 |
| Valor medio | | | | 4.23 | 4.33 | | | 4.32 |
| Desviación típica | | | | | | | | 0.09 |

Tabla A.16 (Continuación).

| INTERFEROGRAMA: SC 61-3 $t_1 = 3000$ s $t_2 = 4980$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.460 | 0.015 | 3.89 | 3.96 | 0.464 | 0.019 | 4.31 |
| | 1 | 0.355 | 0.048 | 3.98 | 3.98 | 0.359 | 0.052 | 4.21 |
| | 2 | 0.283 | 0.091 | 3.95 | 4.10 | 0.287 | 0.095 | 4.30 |
| INFERIOR | 0 | 0.508 | 0.015 | 4.62 | 4.69 | 0.504 | 0.011 | 4.25 |
| | 1 | 0.382 | 0.051 | 4.47 | 4.61 | 0.378 | 0.047 | 4.37 |
| | 2 | 0.299 | 0.092 | 4.31 | 4.47 | 0.295 | 0.088 | 4.27 |
| Valor medio | | | | 4.18 | 4.30 | | | 4.29 |
| Desviación típica | | | | | | | | 0.06 |

| INTERFEROGRAMA: SC 61-4 $t_1 = 3000$ s $t_2 = 5280$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.487 | 0.014 | 4.07 | 4.15 | 0.488 | 0.015 | 4.25 |
| | 1 | 0.384 | 0.045 | 4.09 | 4.24 | 0.385 | 0.046 | 4.30 |
| | 2 | 0.311 | 0.079 | 3.98 | 4.17 | 0.312 | 0.080 | 4.22 |
| | 3 | 0.240 | 0.125 | 3.87 | 4.07 | 0.241 | 0.126 | 4.12 |
| INFERIOR | 0 | 0.496 | 0.014 | 4.19 | 4.27 | 0.495 | 0.013 | 4.17 |
| | 1 | 0.391 | 0.043 | 4.14 | 4.29 | 0.390 | 0.042 | 4.23 |
| | 2 | 0.320 | 0.077 | 4.08 | 4.27 | 0.319 | 0.076 | 4.22 |
| | 3 | 0.243 | 0.133 | 4.15 | 4.36 | 0.242 | 0.132 | 4.32 |
| Valor medio | | | | 4.07 | 4.23 | | | 4.23 |
| Desviación típica | | | | | | | | 0.06 |

Tabla A.16 (Continuación).

| INTERFEROGRAMA: SC 61-5 $t_1 = 3000$ s $t_2 = 5580$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm ² /s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.489 | 0.014 | 3.90 | 3.98 | 0.492 | 0.017 | 4.27 |
| | 1 | 0.390 | 0.041 | 3.90 | 4.07 | 0.393 | 0.044 | 4.25 |
| | 2 | 0.325 | 0.072 | 3.89 | 4.10 | 0.328 | 0.075 | 4.25 |
| | 3 | 0.260 | 0.110 | 3.76 | 3.99 | 0.263 | 0.113 | 4.12 |
| INFERIOR | 0 | 0.534 | 0.014 | 4.54 | 4.63 | 0.531 | 0.011 | 4.28 |
| | 1 | 0.411 | 0.039 | 4.16 | 4.33 | 0.408 | 0.036 | 4.14 |
| | 2 | 0.344 | 0.074 | 4.27 | 4.50 | 0.341 | 0.071 | 4.34 |
| | 3 | 0.275 | 0.114 | 4.15 | 4.40 | 0.272 | 0.111 | 4.26 |
| Valor medio | | | | 4.07 | 4.25 | | | |
| Desviación típica | | | | | 0.25 | | | |
| | | | | | | 4.24 | | |
| | | | | | | 0.07 | | |

Tabla A.17 Experimento SC 62. CuSO_4 8%-10% ($t_1 = 3300$ s).

| INTERFEROGRAMA: SC 62-1 $t_1 = 3300$ s $t_2 = 4680$ s $N_s = 4$ $N_i = 4$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.497 | 0.023 | 5.04 | 5.09 | 0.487 | 0.013 | 4.15 |
| | 1 | 0.350 | 0.073 | 4.70 | 4.77 | 0.340 | 0.063 | 4.23 |
| INFERIOR | 0 | 0.399 | 0.023 | 3.50 | 3.54 | 0.409 | 0.033 | 4.20 |
| | 1 | 0.281 | 0.080 | 3.62 | 3.68 | 0.291 | 0.090 | 4.16 |
| Valor medio | | | | 4.21 | 4.27 | | | 4.18 |
| Desviación típica | | | | | | | | 0.04 |

| INTERFEROGRAMA: SC 62-2 $t_1 = 3300$ s $t_2 = 4920$ s $N_s = 6$ $N_i = 4$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.487 | 0.020 | 4.51 | 4.56 | 0.483 | 0.016 | 4.20 |
| | 1 | 0.357 | 0.065 | 4.39 | 4.48 | 0.353 | 0.061 | 4.27 |
| | 2 | 0.257 | 0.127 | 4.29 | 4.40 | 0.253 | 0.123 | 4.21 |
| INFERIOR | 0 | 0.444 | 0.020 | 3.86 | 3.91 | 0.448 | 0.024 | 4.22 |
| | 1 | 0.327 | 0.068 | 3.97 | 4.00 | 0.331 | 0.072 | 4.26 |
| Valor medio | | | | 4.21 | 4.23 | | | 4.23 |
| Desviación típica | | | | | | | | 0.03 |

Tabla A.17 (Continuación).

| INTERFEROGRAMA: SC 62-3 $t_1 = 3300$ s $t_2 = 5220$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.504 | 0.018 | 4.44 | 4.51 | 0.501 | 0.015 | 4.22 |
| | 1 | 0.377 | 0.058 | 4.34 | 4.46 | 0.374 | 0.055 | 4.29 |
| | 2 | 0.293 | 0.102 | 4.18 | 4.31 | 0.290 | 0.099 | 4.17 |
| INFERIOR | 0 | 0.470 | 0.018 | 3.95 | 4.01 | 0.473 | 0.021 | 4.26 |
| | 1 | 0.355 | 0.056 | 3.92 | 4.02 | 0.358 | 0.059 | 4.18 |
| | 2 | 0.263 | 0.115 | 4.97 | 4.10 | 0.266 | 0.118 | 4.24 |
| Valor medio | | | | 4.13 | 4.23 | | | 4.23 |
| Desviación típica | | | | | 0.22 | | | 0.05 |

| INTERFEROGRAMA: SC 62-4 $t_1 = 3300$ s $t_2 = 5520$ s $N_s = 8$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.539 | 0.017 | 4.73 | 4.81 | 0.534 | 0.012 | 4.28 |
| | 1 | 0.405 | 0.050 | 4.38 | 4.52 | 0.400 | 0.045 | 4.23 |
| | 2 | 0.332 | 0.087 | 4.34 | 4.51 | 0.327 | 0.082 | 4.26 |
| | 3 | 0.243 | 0.147 | 4.23 | 4.41 | 0.238 | 0.142 | 4.19 |
| INFERIOR | 0 | 0.471 | 0.017 | 3.77 | 3.83 | 0.476 | 0.022 | 4.24 |
| | 1 | 0.361 | 0.054 | 3.79 | 3.92 | 0.366 | 0.059 | 4.18 |
| | 2 | 0.286 | 0.100 | 3.88 | 4.03 | 0.291 | 0.105 | 4.27 |
| Valor medio | | | | 4.16 | 4.25 | | | 4.23 |
| Desviación típica | | | | | 0.37 | | | 0.04 |

Tabla A.17 (Continuación).

| INTERFEROGRAMA: SC 62-5 $t_1 = 3300$ $t_2 = 5824$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.530 | 0.014 | 4.25 | 4.33 | 0.529 | 0.013 | 4.22 |
| | 1 | 0.405 | 0.046 | 4.07 | 4.23 | 0.404 | 0.045 | 4.17 |
| | 2 | 0.335 | 0.081 | 4.07 | 4.26 | 0.334 | 0.080 | 4.21 |
| | 3 | 0.253 | 0.129 | 4.05 | 4.26 | 0.262 | 0.128 | 4.22 |
| INFERIOR | 0 | 0.510 | 0.014 | 3.98 | 4.05 | 0.511 | 0.015 | 4.15 |
| | 1 | 0.397 | 0.046 | 3.94 | 4.09 | 0.398 | 0.047 | 4.15 |
| | 2 | 0.325 | 0.089 | 4.09 | 4.29 | 0.326 | 0.089 | 4.33 |
| | 3 | 0.243 | 0.143 | 3.98 | 4.19 | 0.244 | 0.144 | 4.24 |
| Valor medio | | | | 4.05 | 4.21 | 4.21 | | |
| Desviación típica | | | | 0.10 | | 0.06 | | |

| INTERFEROGRAMA: SC 62-6 $t_1 = 3300$ $t_2 = 6120$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|-------------------|----------------|--|---|-----------------|----------------|--|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.535 | 0.013 | 4.05 | 4.12 | 0.536 | 0.014 | 4.23 |
| | 1 | 0.420 | 0.043 | 4.06 | 4.23 | 0.421 | 0.044 | 4.29 |
| | 2 | 0.345 | 0.074 | 3.92 | 4.13 | 0.346 | 0.075 | 4.18 |
| | 3 | 0.282 | 0.116 | 3.96 | 4.20 | 0.283 | 0.117 | 4.25 |
| INFERIOR | 0 | 0.548 | 0.013 | 4.22 | 4.30 | 0.547 | 0.012 | 4.19 |
| | 1 | 0.434 | 0.039 | 4.12 | 4.29 | 0.433 | 0.038 | 4.23 |
| | 2 | 0.355 | 0.073 | 4.05 | 4.26 | 0.354 | 0.072 | 4.21 |
| | 3 | 0.286 | 0.117 | 4.04 | 4.29 | 0.285 | 0.116 | 4.24 |
| Valor medio | | | | 4.05 | 4.23 | 4.23 | | |
| Desviación típica | | | | 0.07 | | 0.03 | | |

Tabla A.17 (Continuación).

| INTERFEROGRAMA: SC 62-7 $t_1 = 3300$ $t_2 = 6270$ $N_s = 8$ $N_f = 8$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{aprox} \times 10^6$ (cm ² /s) | $D_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.552 | 0.013 | 4.20 | 4.28 | 0.552 | 0.013 | 4.28 |
| | 1 | 0.427 | 0.041 | 4.03 | 4.21 | 0.427 | 0.041 | 4.21 |
| | 2 | 0.361 | 0.069 | 3.98 | 4.20 | 0.361 | 0.069 | 4.20 |
| | 3 | 0.299 | 0.108 | 3.98 | 4.24 | 0.299 | 0.108 | 4.24 |
| INFERIOR | 0 | 0.548 | 0.013 | 4.15 | 4.24 | 0.548 | 0.013 | 4.24 |
| | 1 | 0.424 | 0.043 | 4.05 | 4.23 | 0.424 | 0.043 | 4.23 |
| | 2 | 0.352 | 0.073 | 3.93 | 4.16 | 0.352 | 0.073 | 4.16 |
| | 3 | 0.290 | 0.113 | 3.95 | 4.21 | 0.290 | 0.113 | 4.21 |
| Valor medio | | | | 4.03 | 4.22 | | | |
| Desviación típica | | | | | 0.04 | | | |



Tabla A.18 Experimento SC 71. CuSO_4 9.5%-12.5% ($t_1 = 2400$ s).

| INTERFEROGRAMA: SC 71-1 $t_1 = 2400$ $t_2 = 3730$ $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.419 | 0.013 | 4.16 | 4.21 | 0.416 | 0.010 | 3.87 |
| | 1 | 0.312 | 0.044 | 3.96 | 4.05 | 0.309 | 0.041 | 3.86 |
| | 2 | 0.255 | 0.077 | 4.03 | 4.15 | 0.252 | 0.074 | 3.98 |
| INFERIOR | 0 | 0.386 | 0.013 | 3.62 | 3.66 | 0.389 | 0.016 | 3.95 |
| | 1 | 0.305 | 0.040 | 3.69 | 3.78 | 0.308 | 0.043 | 3.97 |
| | 2 | 0.240 | 0.077 | 3.71 | 3.82 | 0.243 | 0.080 | 3.98 |
| Valor medio | | | | 3.86 | 3.95 | | | 3.94 |
| Desviación típica | | | | | | | | 0.06 |

| INTERFEROGRAMA: SC 71-2 $t_1 = 2400$ $t_2 = 3960$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.433 | 0.012 | 4.07 | 4.13 | 0.431 | 0.01 | 3.88 |
| | 1 | 0.337 | 0.037 | 3.96 | 4.08 | 0.335 | 0.035 | 3.94 |
| | 2 | 0.278 | 0.061 | 3.82 | 3.95 | 0.276 | 0.059 | 3.84 |
| | 3 | 0.224 | 0.095 | 3.76 | 3.91 | 0.222 | 0.093 | 3.80 |
| INFERIOR | 0 | 0.403 | 0.012 | 3.60 | 3.65 | 0.405 | 0.014 | 3.86 |
| | 1 | 0.317 | 0.038 | 3.67 | 3.78 | 0.319 | 0.040 | 3.91 |
| | 2 | 0.257 | 0.070 | 3.69 | 3.82 | 0.259 | 0.072 | 3.93 |
| | 3 | 0.191 | 0.118 | 3.67 | 3.82 | 0.193 | 0.120 | 3.32 |
| Valor medio | | | | 3.78 | 3.89 | | | 3.89 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.18 (Continuación).

| INTERFEROGRAMA: SC 71-3 $t_1 = 2400$ $t_2 = 4200$ $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.447 | 0.010 | 3.96 | 4.02 | 0.447 | 0.010 | 4.02 |
| | 1 | 0.347 | 0.031 | 3.76 | 3.88 | 0.347 | 0.031 | 3.88 |
| | 2 | 0.295 | 0.054 | 3.77 | 3.93 | 0.230 | 0.054 | 3.93 |
| | 3 | 0.246 | 0.081 | 3.68 | 3.86 | 0.246 | 0.081 | 3.86 |
| INFERIOR | 0 | 0.434 | 0.010 | 3.78 | 3.84 | 0.434 | 0.010 | 3.84 |
| | 1 | 0.343 | 0.035 | 3.84 | 3.97 | 0.343 | 0.035 | 3.97 |
| | 2 | 0.282 | 0.061 | 3.75 | 3.91 | 0.282 | 0.061 | 3.91 |
| | 3 | 0.227 | 0.097 | 3.77 | 3.95 | 0.227 | 0.097 | 3.95 |
| Valor medio | | | | 3.79 | 3.92 | | | |
| Desviación típica | | | | 0.06 | | 0.06 | | |

| INTERFEROGRAMA: SC 71-4 $t_1 = 2400$ $t_2 = 4510$ $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.426 | 0.010 | 3.51 | 3.58 | 0.430 | 0.014 | 4.01 |
| | 1 | 0.344 | 0.029 | 3.42 | 3.56 | 0.348 | 0.033 | 3.83 |
| | 2 | 0.298 | 0.051 | 3.56 | 3.74 | 0.303 | 0.055 | 3.97 |
| | 3 | 0.259 | 0.073 | 3.51 | 3.72 | 0.263 | 0.077 | 3.93 |
| | 4 | 0.206 | 0.108 | 3.44 | 3.67 | 0.210 | 0.112 | 3.86 |
| INFERIOR | 0 | 0.483 | 0.010 | 4.36 | 4.45 | 0.479 | 0.006 | 3.85 |
| | 1 | 0.378 | 0.030 | 4.07 | 4.23 | 0.374 | 0.026 | 3.94 |
| | 2 | 0.315 | 0.053 | 3.93 | 4.13 | 0.311 | 0.049 | 3.90 |
| | 3 | 0.271 | 0.076 | 3.87 | 4.10 | 0.267 | 0.072 | 3.88 |
| | 4 | 0.216 | 0.116 | 3.86 | 4.11 | 0.212 | 0.112 | 3.91 |
| Valor medio | | | | 3.75 | 3.93 | 3.91 | | |
| Desviación típica | | | | 0.31 | | 0.06 | | |

Tabla A.18 (Continuación).

| INTERFEROGRAMA: SC 71-5 $t_1 = 2400$ $t_2 = 4740$ $N_s = 10$ $N_l = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{aprox} \times 10^6$ (cm ² /s) | $D_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.468 | 0.009 | 3.90 | 3.98 | 0.0468 | 0.009 | 3.98 |
| | 1 | 0.377 | 0.026 | 3.71 | 3.88 | 0.377 | 0.026 | 3.88 |
| | 2 | 0.322 | 0.047 | 3.68 | 3.89 | 0.322 | 0.047 | 3.89 |
| | 3 | 0.278 | 0.071 | 3.70 | 3.95 | 0.278 | 0.071 | 3.95 |
| | 4 | 0.236 | 0.094 | 3.58 | 3.84 | 0.236 | 0.099 | 3.84 |
| INFERIOR | 0 | 0.465 | 0.009 | 3.86 | 3.94 | 0.465 | 0.009 | 3.94 |
| | 1 | 0.374 | 0.028 | 3.74 | 3.91 | 0.374 | 0.028 | 3.91 |
| | 2 | 0.319 | 0.047 | 3.65 | 3.86 | 0.319 | 0.047 | 3.86 |
| | 3 | 0.274 | 0.071 | 3.63 | 3.88 | 0.274 | 0.071 | 3.88 |
| | 4 | 0.226 | 0.104 | 3.63 | 3.91 | 0.226 | 0.104 | 3.91 |
| Valor medio | | | | 3.71 | 3.90 | | | |
| Desviación típica | | | | | 0.04 | | | |

Tabla A.19 Experimento SC 72.CuSO₄ 9.5%-12.5% (t₁=3060 s).

| INTERFEROGRAMA: SC 72-1 t ₁ = 3060 s t ₂ = 4440 s N _s = 6 N _i = 6 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.436 | 0.018 | 3.97 | 4.00 | 0.435 | 0.017 | 3.92 |
| | 1 | 0.334 | 0.055 | 4.03 | 4.10 | 0.333 | 0.054 | 4.04 |
| | 2 | 0.259 | 0.098 | 3.95 | 4.03 | 0.258 | 0.097 | 3.98 |
| INFERIOR | 0 | 0.428 | 0.018 | 3.84 | 3.87 | 0.429 | 0.019 | 3.96 |
| | 1 | 0.316 | 0.057 | 3.75 | 3.82 | 0.317 | 0.058 | 3.87 |
| | 2 | 0.230 | 0.111 | 3.73 | 3.82 | 0.231 | 0.112 | 3.86 |
| Valor medio | | | | 3.88 | 3.94 | | | |
| Desviación típica | | | | | | 0.07 | | |

| INTERFEROGRAMA: SC 72-2 t ₁ = 3060 s t ₂ = 4740 s N _s = 6 N _i = 6 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.444 | 0.015 | 3.75 | 3.80 | 0.446 | 0.017 | 3.97 |
| | 1 | 0.345 | 0.046 | 3.72 | 3.81 | 0.347 | 0.048 | 3.92 |
| | 2 | 0.281 | 0.080 | 3.69 | 3.80 | 0.283 | 0.082 | 3.90 |
| INFERIOR | 0 | 0.468 | 0.015 | 4.10 | 4.15 | 0.466 | 0.013 | 3.95 |
| | 1 | 0.355 | 0.046 | 3.89 | 3.98 | 0.353 | 0.044 | 3.87 |
| | 2 | 0.281 | 0.087 | 3.89 | 4.00 | 0.279 | 0.085 | 3.90 |
| Valor medio | | | | 3.84 | 3.92 | | | |
| Desviación típica | | | | | | 0.04 | | |

Tabla A.19 (Continuación).

| INTERFEROGRAMA: SC 72-3 $t_1 = 3060$ s $t_2 = 5040$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.461 | 0.014 | 3.72 | 3.77 | 0.463 | 0.016 | 3.96 |
| | 1 | 0.359 | 0.044 | 3.74 | 3.85 | 0.361 | 0.046 | 3.96 |
| | 2 | 0.298 | 0.071 | 3.62 | 3.74 | 0.300 | 0.073 | 3.84 |
| | 3 | 0.243 | 0.110 | 3.65 | 3.80 | 0.245 | 0.112 | 3.89 |
| INFERIOR | 0 | 0.488 | 0.014 | 4.10 | 4.16 | 0.486 | 0.012 | 3.95 |
| | 1 | 0.380 | 0.039 | 3.87 | 3.98 | 0.378 | 0.037 | 3.86 |
| | 2 | 0.318 | 0.068 | 3.85 | 3.98 | 0.316 | 0.065 | 3.88 |
| | 3 | 0.244 | 0.115 | 3.81 | 3.96 | 0.242 | 0.113 | 3.87 |
| Valor medio | | | | 3.80 | 3.91 | | | 3.90 |
| Desviación típica | | | | | | | | 0.04 |

| INTERFEROGRAMA: SC 72-4 $t_1 = 3060$ s $t_2 = 5340$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.500 | 0.012 | 3.97 | 4.03 | 0.499 | 0.011 | 3.92 |
| | 1 | 0.394 | 0.037 | 3.87 | 4.00 | 0.393 | 0.036 | 3.94 |
| | 2 | 0.328 | 0.063 | 3.72 | 3.87 | 0.327 | 0.062 | 3.82 |
| | 3 | 0.279 | 0.096 | 3.83 | 4.01 | 0.278 | 0.095 | 3.97 |
| INFERIOR | 0 | 0.488 | 0.012 | 3.81 | 3.87 | 0.489 | 0.013 | 3.98 |
| | 1 | 0.382 | 0.039 | 3.77 | 3.90 | 0.383 | 0.040 | 3.96 |
| | 2 | 0.322 | 0.066 | 3.74 | 3.90 | 0.323 | 0.067 | 3.95 |
| | 3 | 0.259 | 0.106 | 3.73 | 3.91 | 0.260 | 0.107 | 3.95 |
| Valor medio | | | | 3.81 | 3.94 | | | 3.94 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.19 (Continuación).

| INTERFEROGRAMA: SC 72-5 $t_1 = 3060 \text{ s}$ $t_2 = 5640 \text{ s}$ $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.494 | 0.012 | 3.75 | 3.82 | 0.496 | 0.014 | 4.02 |
| | 1 | 0.394 | 0.034 | 3.59 | 3.73 | 0.396 | 0.036 | 3.85 |
| | 2 | 0.333 | 0.057 | 3.51 | 3.68 | 0.335 | 0.059 | 3.78 |
| | 3 | 0.288 | 0.089 | 3.67 | 3.88 | 0.290 | 0.091 | 3.97 |
| | 4 | 0.225 | 0.131 | 3.54 | 3.76 | 0.227 | 0.133 | 3.84 |
| INFERIOR | 0 | 0.527 | 0.012 | 4.19 | 4.26 | 0.525 | 0.010 | 4.03 |
| | 1 | 0.426 | 0.030 | 3.91 | 4.05 | 0.424 | 0.028 | 3.92 |
| | 2 | 0.355 | 0.059 | 3.91 | 4.10 | 0.353 | 0.057 | 4.00 |
| | 3 | 0.298 | 0.089 | 3.83 | 4.05 | 0.296 | 0.087 | 3.95 |
| | 4 | 0.235 | 0.132 | 3.77 | 4.00 | 0.233 | 0.130 | 3.91 |
| Valor medio | | | | 3.77 | 3.93 | | | 3.93 |
| Desviación típica | | | | | 0.19 | | | 0.08 |

| INTERFEROGRAMA: SC 72-6 $t_1 = 3060 \text{ s}$ $t_2 = 5940 \text{ s}$ $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.530 | 0.010 | 3.94 | 4.01 | 0.530 | 0.010 | 4.01 |
| | 1 | 0.421 | 0.032 | 3.80 | 3.96 | 0.421 | 0.032 | 3.96 |
| | 2 | 0.361 | 0.055 | 3.77 | 3.98 | 0.361 | 0.055 | 3.98 |
| | 3 | 0.312 | 0.078 | 3.65 | 3.88 | 0.312 | 0.078 | 3.88 |
| | 4 | 0.266 | 0.109 | 3.66 | 3.92 | 0.266 | 0.109 | 3.92 |
| INFERIOR | 0 | 0.529 | 0.010 | 3.92 | 3.99 | 0.529 | 0.010 | 3.99 |
| | 1 | 0.425 | 0.032 | 3.86 | 4.02 | 0.425 | 0.032 | 4.02 |
| | 2 | 0.364 | 0.053 | 3.74 | 3.95 | 0.364 | 0.053 | 3.95 |
| | 3 | 0.314 | 0.079 | 3.73 | 3.97 | 0.314 | 0.079 | 3.97 |
| | 4 | 0.260 | 0.116 | 3.72 | 3.99 | 0.260 | 0.116 | 3.99 |
| Valor medio | | | | 3.78 | 3.97 | | | 3.97 |
| Desviación típica | | | | | 0.04 | | | 0.04 |

Tabla A.20 Experimento SC 81. CuSO₄ 11.5%-14.5% (t₁ = 3600 s).

| INTERFEROGRAMA: SC 81-1 t ₁ = 3600 s t ₂ = 4980 s N _s = 6 N _i = 6 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.455 | 0.018 | 3.70 | 3.73 | 0.456 | 0.019 | 3.80 |
| | 1 | 0.361 | 0.051 | 3.80 | 3.84 | 0.362 | 0.052 | 3.90 |
| | 2 | 0.288 | 0.091 | 3.76 | 3.82 | 0.289 | 0.092 | 3.87 |
| INFERIOR | 0 | 0.475 | 0.018 | 3.98 | 4.01 | 0.474 | 0.017 | 3.92 |
| | 1 | 0.363 | 0.054 | 3.94 | 3.99 | 0.362 | 0.053 | 3.94 |
| | 2 | 0.286 | 0.099 | 3.96 | 4.02 | 0.285 | 0.098 | 3.97 |
| Valor medio | | | | 3.86 | 3.90 | | | |
| Desviación típica | | | | | 0.12 | 0.06 | | |

| INTERFEROGRAMA: SC 81-2 t ₁ = 3600 s t ₂ = 5220 s N _s = 8 N _i = 8 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.489 | 0.015 | 3.89 | 3.93 | 0.489 | 0.015 | 3.93 |
| | 1 | 0.379 | 0.045 | 3.76 | 3.82 | 0.379 | 0.045 | 3.82 |
| | 2 | 0.312 | 0.078 | 3.74 | 3.81 | 0.312 | 0.078 | 3.81 |
| | 3 | 0.243 | 0.126 | 3.72 | 3.81 | 0.243 | 0.126 | 3.81 |
| INFERIOR | 0 | 0.486 | 0.015 | 3.85 | 3.88 | 0.486 | 0.015 | 3.88 |
| | 1 | 0.387 | 0.078 | 3.82 | 3.89 | 0.387 | 0.078 | 3.89 |
| | 2 | 0.316 | 0.080 | 3.84 | 3.92 | 0.316 | 0.080 | 3.92 |
| | 3 | 0.238 | 0.131 | 3.75 | 3.83 | 0.238 | 0.131 | 3.83 |
| Valor medio | | | | 3.80 | 3.86 | 3.86 | | |
| Desviación típica | | | | | 0.05 | 0.05 | | |

Tabla A.20 (Continuación).

| INTERFEROGRAMA: SC 81-3 $t_1 = 3600$ s $t_2 = 5460$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.488 | 0.014 | 3.67 | 3.70 | 0.490 | 0.016 | 3.88 |
| | 1 | 0.399 | 0.039 | 3.73 | 3.80 | 0.401 | 0.041 | 3.91 |
| | 2 | 0.332 | 0.067 | 3.65 | 3.74 | 0.334 | 0.069 | 3.83 |
| | 3 | 0.269 | 0.106 | 3.63 | 3.73 | 0.271 | 0.108 | 3.82 |
| INFERIOR | 0 | 0.517 | 0.014 | 4.04 | 4.08 | 0.515 | 0.012 | 3.87 |
| | 1 | 0.404 | 0.042 | 3.95 | 4.02 | 0.402 | 0.040 | 3.91 |
| | 2 | 0.335 | 0.072 | 3.85 | 3.95 | 0.333 | 0.070 | 3.85 |
| | 3 | 0.283 | 0.104 | 3.82 | 3.92 | 0.281 | 0.102 | 3.83 |
| Valor medio | | | | 3.79 | 3.87 | 3.86 | | |
| Desviación típica | | | | 0.14 | | 0.04 | | |

| INTERFEROGRAMA: SC 81-4 $t_1 = 3600$ s $t_2 = 5740$ s $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.503 | 0.012 | 3.60 | 3.65 | 0.506 | 0.015 | 3.93 |
| | 1 | 0.410 | 0.033 | 3.56 | 3.64 | 0.413 | 0.036 | 3.81 |
| | 2 | 0.348 | 0.062 | 3.63 | 3.74 | 0.351 | 0.065 | 3.88 |
| | 3 | 0.294 | 0.091 | 3.58 | 3.70 | 0.297 | 0.094 | 3.83 |
| | 4 | 0.236 | 0.136 | 3.61 | 3.74 | 0.239 | 0.139 | 3.86 |
| INFERIOR | 0 | 0.544 | 0.012 | 4.12 | 4.16 | 0.541 | 0.009 | 3.82 |
| | 1 | 0.425 | 0.039 | 3.99 | 4.08 | 0.422 | 0.036 | 3.91 |
| | 2 | 0.366 | 0.062 | 3.92 | 4.03 | 0.363 | 0.059 | 3.89 |
| | 3 | 0.309 | 0.095 | 3.94 | 4.07 | 0.306 | 0.092 | 3.93 |
| | 4 | 0.239 | 0.144 | 3.84 | 3.98 | 0.236 | 0.141 | 3.85 |
| Valor medio | | | | 3.78 | 3.88 | 3.87 | | |
| Desviación típica | | | | 0.20 | | 0.04 | | |

Tabla A.21 Experimento SC 82. CuSO_4 11.5%-14.5% ($t_1 = 4200$ s).

| INTERFEROGRAMA: SC 82-1 $t_1 = 4200$ s $t_2 = 5640$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.446 | 0.020 | 3.26 | 3.28 | 0.454 | 0.028 | 3.78 |
| | 1 | 0.351 | 0.057 | 3.35 | 3.39 | 0.359 | 0.065 | 3.74 |
| | 2 | 0.265 | 0.111 | 3.38 | 3.42 | 0.273 | 0.119 | 3.74 |
| INFERIOR | 0 | 0.539 | 0.020 | 4.48 | 4.51 | 0.531 | 0.012 | 3.80 |
| | 1 | 0.406 | 0.057 | 4.18 | 4.23 | 0.398 | 0.049 | 3.82 |
| | 2 | 0.315 | 0.104 | 4.06 | 4.12 | 0.307 | 0.096 | 3.77 |
| Valor medio | | | | 3.78 | 3.82 | | | 3.78 |
| Desviación típica | | | | | | | | 0.03 |

| INTERFEROGRAMA: SC 82-2 $t_1 = 4200$ s $t_2 = 5820$ s $N_s = 6$ $N_i = 6$ | | | | | | | | |
|---|-----------|----------------|----------------|---|--|----------------|----------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.471 | 0.017 | 3.32 | 3.35 | 0.478 | 0.024 | 3.83 |
| | 1 | 0.365 | 0.056 | 3.45 | 3.50 | 0.372 | 0.063 | 3.82 |
| | 2 | 0.288 | 0.101 | 3.46 | 3.51 | 0.295 | 0.108 | 3.80 |
| INFERIOR | 0 | 0.555 | 0.017 | 4.39 | 4.42 | 0.548 | 0.010 | 3.74 |
| | 1 | 0.421 | 0.054 | 4.23 | 4.28 | 0.414 | 0.047 | 3.92 |
| | 2 | 0.337 | 0.094 | 4.10 | 4.16 | 0.330 | 0.087 | 3.85 |
| Valor medio | | | | 3.83 | 3.87 | | | 3.83 |
| Desviación típica | | | | | | | | 0.06 |

Tabla A.21 (Continuación).

| INTERFEROGRAMA: SC 82-3 $t_1 = 4200$ s $t_2 = 6000$ s $N_s = 6$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.489 | 0.016 | 3.42 | 3.45 | 0.495 | 0.022 | 3.89 |
| | 1 | 0.381 | 0.048 | 3.38 | 3.44 | 0.387 | 0.054 | 3.72 |
| | 2 | 0.313 | 0.088 | 3.50 | 3.57 | 0.319 | 0.094 | 3.81 |
| INFERIOR | 0 | 0.562 | 0.016 | 4.35 | 4.38 | 0.556 | 0.010 | 3.79 |
| | 1 | 0.430 | 0.050 | 4.15 | 4.21 | 0.424 | 0.044 | 3.89 |
| | 2 | 0.353 | 0.087 | 4.08 | 4.16 | 0.347 | 0.081 | 3.89 |
| | 3 | 0.275 | 0.132 | 3.90 | 3.98 | 0.269 | 0.126 | 3.73 |
| Valor medio | | | | 3.83 | 3.83 | | | 3.82 |
| Desviación típica | | | | | | | | 0.08 |

| INTERFEROGRAMA: SC 82-4 $t_1 = 4200$ s $t_2 = 6180$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.508 | 0.015 | 3.54 | 3.57 | 0.512 | 0.019 | 3.88 |
| | 1 | 0.398 | 0.047 | 3.52 | 3.58 | 0.402 | 0.051 | 3.77 |
| | 2 | 0.332 | 0.081 | 3.53 | 3.61 | 0.336 | 0.085 | 3.77 |
| | 3 | 0.265 | 0.129 | 3.58 | 3.66 | 0.269 | 0.133 | 3.82 |
| INFERIOR | 0 | 0.552 | 0.015 | 4.08 | 4.11 | 0.548 | 0.011 | 3.73 |
| | 1 | 0.441 | 0.042 | 3.95 | 4.01 | 0.437 | 0.038 | 3.80 |
| | 2 | 0.367 | 0.076 | 3.94 | 4.02 | 0.363 | 0.072 | 3.84 |
| | 3 | 0.297 | 0.116 | 3.82 | 3.91 | 0.293 | 0.112 | 3.75 |
| Valor medio | | | | 3.74 | 3.81 | | | 3.80 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.21 (Continuación).

| INTERFEROGRAMA: SC 82-5 $t_1 = 4200$ s $t_2 = 6480$ s $N_s = 8$ $N_l = 10$ | | | | | | | | |
|--|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{aprox} \times 10^6$ (cm ² /s) | $D_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.506 | 0.013 | 3.28 | 3.32 | 0.512 | 0.019 | 3.78 |
| | 1 | 0.410 | 0.040 | 3.34 | 3.41 | 0.416 | 0.046 | 3.70 |
| | 2 | 0.347 | 0.071 | 3.41 | 3.50 | 0.353 | 0.077 | 3.75 |
| | 3 | 0.291 | 0.107 | 3.43 | 3.53 | 0.297 | 0.113 | 3.77 |
| INFERIOR | 0 | 0.590 | 0.013 | 4.29 | 4.33 | 0.584 | 0.007 | 3.65 |
| | 1 | 0.466 | 0.040 | 4.10 | 4.18 | 0.460 | 0.034 | 3.84 |
| | 2 | 0.390 | 0.062 | 4.00 | 4.10 | 0.384 | 0.063 | 3.82 |
| | 3 | 0.327 | 0.104 | 3.94 | 4.05 | 0.321 | 0.098 | 3.80 |
| | 4 | 0.261 | 0.152 | 3.90 | 4.03 | 0.255 | 0.146 | 3.79 |
| Valor medio | | | | 3.74 | 3.79 | | | 3.77 |
| Desviación típica | | | | | | | | 0.06 |

| INTERFEROGRAMA: SC 82-6 $t_1 = 4200$ s $t_2 = 6780$ s $N_s = 10$ $N_l = 10$ | | | | | | | | |
|---|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{aprox} \times 10^6$ (cm ² /s) | $D_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $D_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.503 | 0.012 | 3.06 | 3.10 | 0.511 | 0.020 | 3.71 |
| | 1 | 0.426 | 0.035 | 3.30 | 3.37 | 0.434 | 0.043 | 3.78 |
| | 2 | 0.364 | 0.061 | 3.27 | 3.37 | 0.372 | 0.069 | 3.71 |
| | 3 | 0.310 | 0.094 | 3.33 | 3.45 | 0.318 | 0.102 | 3.76 |
| | 4 | 0.249 | 0.138 | 3.32 | 3.44 | 0.257 | 0.146 | 3.74 |
| INFERIOR | 0 | 0.638 | 0.012 | 4.64 | 4.69 | 0.630 | 0.004 | 3.53 |
| | 1 | 0.482 | 0.037 | 4.09 | 4.19 | 0.474 | 0.029 | 3.72 |
| | 2 | 0.416 | 0.064 | 4.11 | 4.23 | 0.408 | 0.056 | 3.85 |
| | 3 | 0.360 | 0.091 | 4.02 | 4.15 | 0.083 | 0.083 | 3.81 |
| | 4 | 0.303 | 0.130 | 4.02 | 4.17 | 0.295 | 0.122 | 3.85 |
| Valor medio | | | | 3.72 | 3.82 | | | 3.75 |
| Desviación típica | | | | | | | | 0.09 |

Tabla A.22 Experimento SC 91.CuSO₄ 14.5%-17.5% (t₁ = 5400 s).

| INTERFEROGRAMA: SC 91-1 t ₁ = 5400 s t ₂ = 6780 s N _s = 6 N _i = 6 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.499 | 0.018 | 3.09 | 3.10 | 0.509 | 0.028 | 3.69 |
| | 1 | 0.391 | 0.060 | 3.27 | 3.30 | 0.401 | 0.070 | 3.70 |
| | 2 | 0.311 | 0.105 | 3.25 | 3.27 | 0.321 | 0.115 | 3.63 |
| INFERIOR | 0 | 0.633 | 0.018 | 4.63 | 4.65 | 0.623 | 0.008 | 3.69 |
| | 1 | 0.466 | 0.058 | 4.22 | 4.25 | 0.456 | 0.048 | 3.78 |
| | 0 | 0.369 | 0.107 | 4.14 | 4.17 | 0.359 | 0.097 | 3.78 |
| Valor medio | | | | 3.77 | 3.79 | | | 3.71 |
| Desviación típica | | | | | | | | 0.06 |

| INTERFEROGRAMA: SC 91-2 t ₁ = 5400 s t ₂ = 6990 s N _s = 8 N _i = 8 | | | | | | | | |
|---|-----------|-----------------------|-----------------------|---|--|-----------------------|-----------------------|---|
| | | VALORES INICIALES | | | | VALORES FINALES | | |
| ZONA | ORDEN (M) | X _{M+1} (cm) | X _{N-M} (cm) | D _{aprox} × 10 ⁶ (cm ² /s) | D _{riguroso} × 10 ⁶ (cm ² /s) | X _{M+1} (cm) | X _{N-M} (cm) | D _{corregido} × 10 ⁶ (cm ² /s) |
| SUPERIOR | 0 | 0.527 | 0.017 | 3.24 | 3.25 | 0.535 | 0.025 | 3.77 |
| | 1 | 0.426 | 0.050 | 3.36 | 3.39 | 0.434 | 0.058 | 3.73 |
| | 2 | 0.356 | 0.088 | 3.44 | 3.47 | 0.364 | 0.096 | 3.77 |
| | 3 | 0.276 | 0.144 | 3.44 | 3.47 | 0.284 | 0.152 | 3.75 |
| INFERIOR | 0 | 0.633 | 0.017 | 4.43 | 4.45 | 0.625 | 0.009 | 3.68 |
| | 1 | 0.492 | 0.049 | 4.20 | 4.23 | 0.484 | 0.041 | 3.84 |
| | 2 | 0.407 | 0.086 | 4.11 | 4.15 | 0.399 | 0.078 | 3.83 |
| | 3 | 0.326 | 0.136 | 4.05 | 4.09 | 0.318 | 0.128 | 3.80 |
| Valor medio | | | | 3.78 | 3.81 | | | 3.77 |
| Desviación típica | | | | | | | | 0.05 |

Tabla A.2z (Continuación).

| INTERFEROGRAMA: SC 91-3 $t_1 = 5400$ s $t_2 = 7230$ s $N_s = 8$ $N_i = 8$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.525 | 0.016 | 3.15 | 3.17 | 0.534 | 0.025 | 3.73 |
| | 1 | 0.435 | 0.046 | 3.29 | 3.33 | 0.444 | 0.055 | 3.71 |
| | 2 | 0.366 | 0.080 | 3.33 | 3.37 | 0.375 | 0.089 | 3.71 |
| | 3 | 0.300 | 0.124 | 3.34 | 3.39 | 0.309 | 0.133 | 3.70 |
| INFERIOR | 0 | 0.655 | 0.016 | 4.60 | 4.62 | 0.646 | 0.007 | 3.70 |
| | 1 | 0.506 | 0.046 | 4.18 | 4.21 | 0.497 | 0.037 | 3.76 |
| | 2 | 0.423 | 0.077 | 4.02 | 4.07 | 0.414 | 0.068 | 3.70 |
| | 3 | 0.354 | 0.120 | 4.06 | 4.11 | 0.345 | 0.111 | 3.78 |
| Valor medio | | | | 3.75 | 3.78 | | | 3.72 |
| Desviación típica | | | | | | | | 0.03 |

| INTERFEROGRAMA: SC 91-4 $t_1 = 5400$ s $t_2 = 7430$ s $N_s = 10$ $N_i = 10$ | | | | | | | | |
|---|-----------|----------------|----------------|--|---|----------------|----------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.566 | 0.015 | 3.42 | 3.44 | 0.571 | 0.020 | 3.80 |
| | 1 | 0.458 | 0.043 | 3.40 | 3.43 | 0.463 | 0.046 | 3.66 |
| | 2 | 0.394 | 0.074 | 3.47 | 3.52 | 0.399 | 0.079 | 3.71 |
| | 3 | 0.338 | 0.108 | 3.51 | 3.56 | 0.343 | 0.113 | 3.74 |
| | 4 | 0.262 | 0.163 | 3.45 | 3.51 | 0.267 | 0.168 | 3.68 |
| INFERIOR | 0 | 0.634 | 0.015 | 4.16 | 4.18 | 0.629 | 0.010 | 3.71 |
| | 1 | 0.509 | 0.042 | 4.03 | 4.07 | 0.504 | 0.037 | 3.82 |
| | 2 | 0.430 | 0.070 | 3.87 | 3.92 | 0.425 | 0.065 | 3.71 |
| | 3 | 0.366 | 0.110 | 3.95 | 4.01 | 0.361 | 0.105 | 3.82 |
| | 4 | 0.295 | 0.160 | 3.91 | 3.98 | 0.290 | 0.155 | 3.80 |
| Valor medio | | | | 3.72 | 3.76 | | | 3.75 |
| Desviación típica | | | | | | | | 0.06 |

Tabla A.23 Experimento SC 92. CuSO_4 14.5%-17.5% ($t_1 = 5400$ s).

| INTERFEROGRAMA: SC 92-1 $t_1 = 5400$ s $t_2 = 6840$ s $N_s = 6$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.516 | 0.016 | 3.15 | 3.16 | 0.526 | 0.026 | 3.79 |
| | 1 | 0.396 | 0.055 | 3.18 | 3.21 | 0.406 | 0.065 | 3.61 |
| | 2 | 0.318 | 0.102 | 3.27 | 3.30 | 0.328 | 0.112 | 3.65 |
| INFERIOR | 0 | 0.652 | 0.016 | 4.71 | 4.72 | 0.642 | 0.006 | 3.65 |
| | 1 | 0.484 | 0.052 | 4.25 | 4.28 | 0.474 | 0.042 | 3.79 |
| | 2 | 0.389 | 0.092 | 4.05 | 4.08 | 0.379 | 0.082 | 3.68 |
| | 3 | 0.295 | 0.154 | 3.97 | 4.00 | 0.285 | 0.144 | 3.64 |
| Valor medio | | | | 3.80 | 3.75 | | | 3.69 |
| Desviación típica | | | | | | | | 0.07 |

| INTERFEROGRAMA: SC 92-2 $t_1 = 5400$ s $t_2 = 7040$ s $N_s = 6$ $N_i = 8$ | | | | | | | | |
|---|--------------|-------------------|-------------------|--|---|-------------------|-------------------|--|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{aprox}} \times 10^6$ (cm^2/s) | $\mathcal{D}_{\text{riguroso}} \times 10^6$ (cm^2/s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{\text{corregido}} \times 10^6$ (cm^2/s) |
| SUPERIOR | 0 | 0.509 | 0.015 | 2.93 | 2.95 | 0.521 | 0.027 | 3.68 |
| | 1 | 0.408 | 0.047 | 3.07 | 3.09 | 0.420 | 0.059 | 3.58 |
| | 2 | 0.340 | 0.091 | 3.26 | 3.29 | 0.352 | 0.103 | 3.73 |
| | 3 | 0.259 | 0.148 | 3.24 | 3.28 | 0.271 | 0.160 | 3.69 |
| INFERIOR | 0 | 0.733 | 0.015 | 5.52 | 5.53 | 0.721 | 0.003 | 3.73 |
| | 1 | 0.510 | 0.047 | 4.35 | 4.38 | 0.498 | 0.035 | 3.76 |
| | 2 | 0.427 | 0.085 | 4.36 | 4.41 | 0.415 | 0.073 | 3.90 |
| | 3 | 0.349 | 0.127 | 4.20 | 4.24 | 0.337 | 0.115 | 3.79 |
| Valor medio | | | | 3.87 | 3.90 | | | 3.73 |
| Desviación típica | | | | | | | | 0.09 |

Tabla A.23 (Continuación).

| INTERFEROGRAMA: SC 92-3 $t_1 = 5400$ s $t_2 = 7240$ s $N_s = 8$ $N_i = 10$ | | | | | | | | |
|--|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.518 | 0.015 | 2.97 | 2.99 | 0.530 | 0.027 | 3.73 |
| | 1 | 0.421 | 0.045 | 3.09 | 3.12 | 0.433 | 0.057 | 3.62 |
| | 2 | 0.356 | 0.080 | 3.19 | 3.23 | 0.368 | 0.092 | 3.67 |
| | 3 | 0.289 | 0.123 | 3.16 | 3.20 | 0.301 | 0.135 | 3.61 |
| INFERIOR | 0 | 0.750 | 0.015 | 5.65 | 5.67 | 0.738 | 0.003 | 3.81 |
| | 1 | 0.534 | 0.042 | 4.41 | 4.46 | 0.522 | 0.030 | 3.80 |
| | 2 | 0.447 | 0.075 | 4.29 | 4.34 | 0.435 | 0.063 | 3.82 |
| | 3 | 0.378 | 0.111 | 4.22 | 4.27 | 0.366 | 0.099 | 3.80 |
| | 4 | 0.303 | 0.164 | 4.19 | 4.25 | 0.291 | 0.152 | 3.80 |
| Valor medio | | | | 3.91 | 3.87 | | | 3.73 |
| Desviación típica | | | | | | | | 0.09 |

| INTERFEROGRAMA: SC 92-4 $t_1 = 5400$ s $t_2 = 7440$ s $N_s = 8$ $N_i = 10$ | | | | | | | | |
|--|--------------|-------------------|-------------------|---|--|-------------------|-------------------|---|
| VALORES INICIALES | | | | | VALORES FINALES | | | |
| ZONA | ORDEN (M) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{aprox} \times 10^6$ (cm ² /s) | $\mathcal{D}_{riguroso} \times 10^6$ (cm ² /s) | X_{M+1} (cm) | X_{N-M} (cm) | $\mathcal{D}_{corregido} \times 10^6$ (cm ² /s) |
| SUPERIOR | 0 | 0.526 | 0.014 | 2.95 | 2.96 | 0.538 | 0.026 | 3.72 |
| | 1 | 0.430 | 0.041 | 3.04 | 3.07 | 0.442 | 0.053 | 3.58 |
| | 2 | 0.367 | 0.072 | 3.09 | 3.13 | 0.379 | 0.084 | 3.57 |
| | 3 | 0.310 | 0.110 | 3.16 | 3.21 | 0.322 | 0.122 | 3.62 |
| INFERIOR | 0 | 0.781 | 0.014 | 5.88 | 5.90 | 0.769 | 0.002 | 3.75 |
| | 1 | 0.559 | 0.038 | 4.51 | 4.56 | 0.547 | 0.026 | 3.85 |
| | 2 | 0.465 | 0.067 | 4.25 | 4.31 | 0.453 | 0.055 | 3.78 |
| | 3 | 0.401 | 0.099 | 4.20 | 4.27 | 0.389 | 0.087 | 3.79 |
| | 4 | 0.340 | 0.140 | 4.21 | 4.28 | 0.328 | 0.128 | 3.83 |
| Valor medio | | | | 3.92 | 3.88 | | | 3.71 |
| Desviación típica | | | | | | | | 0.10 |



APENDICE 2:

PROGRAMA DE CALCULO

Universitat d'Alacant
Universidad de Alicante

FILE CODI

```

0010 REM EL PROGRAMA CODI CALCULA TRES VALORES DEL COEFICIENTE DE DIFUSION PARA
0020 REM CADA PAR DE FRANJAS DEL MISMO ORDEN DE INTERFERENCIA: EL PRIMERO ES UN
0030 REM VALOR APROXIMADO, EL SEGUNDO ES UN VALOR RIGUROSO Y EL TERCERO ES UN
0040 REM VALOR CORREGIDO, DESPUES DE MODIFICAR LA POSICION DE LA INTERFACE
0050 REM
0053 OCL 50 (T$)
0070 DISP "HOLOGRAMA NUMERO";
0080 INPUT N3
0090 PRINT "HOLOGRAMA NUMERO";N3
0100 DIM X(40),Y(40),G(40),H(40),D(80),S(90),F(90),Z(80),W(80),B(80),M(80),T(80)
0110 DISP "SISTEMA";
0120 INPUT T$
0130 PRINT ",,T$
0140 DISP "T1,T2,N1,N2,E";
0150 INPUT T1,T2,N1,N2,E
0160 PRINT "T1=";T1,"T2=";T2,"N1=";N1,"N2=";N2,"E=";E
0170 FOR I=1 TO N1 STEP 1
0180 DISP "Z(";I;")","T(";I;")";
0190 INPUT Z(I),T(I)
0200 LET X(I)=Z(I)/E
0210 PRINT "Z(";I;")=";Z(I),"X(";I;")=";X(I),"T(";I;")=";T(I)
0220 NEXT I
0230 PRINT
0240 FOR I=1 TO N2 STEP 1
0250 DISP "W(";I;")","M(";I;")";
0260 INPUT W(I),M(I)
0270 LET Y(I)=W(I)/E
0280 PRINT "W(";I;")=";W(I),"Y(";I;")=";Y(I),"M(";I;")=";M(I)
0290 NEXT I
0300 PRINT
0310 REM
0320 REM SE CALCULA EL COEFICIENTE DE DIFUSION APROXIMADO MEDIANTE UNA MODIFI-
0330 REM CACION DE LA ECUACION DE GABELMANN-GRAY Y FENICHEL
0340 REM
0350 LET D0=0
0360 LET J=0
0370 PRINT "COEFICIENTES DE DIFUSION EN PRIMERA APROXIMACION"
0380 FOR I=1 TO N1/2 STEP 1
0390 LET G(I)=(X(I)+2-X(N1-I+1)+2)/(4*((T1+T2)/2)*LOG(X(I)/X(N1-I+1)))
0400 LET D0=D0+G(I)
0410 PRINT "D(";I;")=";G(I)
0420 NEXT I
0430 PRINT
0440 FOR I=1 TO N2/2 STEP 1
0450 LET H(I)=(Y(I)+2-Y(N2-I+1)+2)/(4*((T1+T2)/2)*LOG(Y(I)/Y(N2-I+1)))
0460 LET D0=D0+H(I)
0470 PRINT "D(";I;")=";H(I)
0480 NEXT I
0490 LET D0=D0*2/(N1+N2)
0500 PRINT "D MEDIA INICIAL =";D0
0510 LET D1=D0*1E-4


```



```

0520 REM
0530 REM SE CALCULA EL COEFICIENTE DE DIFUSION RIGUROSO SIN EFECTUAR SIMPLIFI-
0540 REM CACIONES DE LA FUNCION ERROR
0550 REM
0560 PRINT
0570 PRINT "VALORES INICIALES"
0580 PRINT
0590 FOR I=1 TO N1/2 STEP 1
0600 GOSUB 1330
0610 NEXT I
0620 GOSUB 2010
0630 FOR I=1 TO N2/2 STEP 1
0640 GOSUB 1670
0650 NEXT I
0660 GOSUB 2140
0670 REM
0680 REM SE CALCULA EL VALOR DEL COEFICIENTE DE DIFUSION CORREGIDO DESPUES
0690 REM DE HABER MODIFICADO LA POSICION DE LA INTERFACE
0700 REM
0710 PRINT "DESPLAZAMIENTO DE LA INTERFACE HACIA ABAJO"
0720 FOR I=1 TO N1/2 STEP 1
0730 LET X(I)=X(I)+0.001
0740 LET X(N1-I+1)=X(N1-I+1)+0.001
0750 GOSUB 1330
0760 NEXT I
0770 GOSUB 2010
0780 FOR I=1 TO N2/2 STEP 1
0790 LET Y(I)=Y(I)-0.001
0800 LET Y(N2-I+1)=Y(N2-I+1)-0.001
0810 GOSUB 1670
0820 NEXT I
0830 GOSUB 2140
0840 IF F(J)<F(J-1) THEN 1020
0850 PRINT
0860 PRINT "DESPLAZAMIENTO DE LA INTERFACE HACIA ARRIBA"
0870 FOR I=1 TO N1/2 STEP 1
0880 LET X(I)=X(I)-0.002
0890 LET X(N1-I+1)=X(N1-I+1)-0.002
0900 GOSUB 1330
0910 NEXT I
0920 GOSUB 2010
0930 FOR I=1 TO N2/2 STEP 1
0940 LET Y(I)=Y(I)+0.002
0950 LET Y(N2-I+1)=Y(N2-I+1)+0.002
0960 GOSUB 1670
0970 NEXT I
0980 GOSUB 2140
0990 IF F(J)<F(J-2) THEN 1170
1000 GOTO 2760
1010 REM TRABAJO NORMAL HACIA ABAJO
1020 FOR I=1 TO N1/2 STEP 1
1030 LET X(I)=X(I)+0.001
1040 LET X(N1-I+1)=X(N1-I+1)+0.001
1050 GOSUB 1330
1060 NEXT I
1070 GOSUB 2010
1080 FOR I=1 TO N2/2 STEP 1
1090 LET Y(I)=Y(I)-0.001
1100 LET Y(N2-I+1)=Y(N2-I+1)-0.001
1110 GOSUB 1670
1120 NEXT I
1130 GOSUB 2140
1140 IF F(J-1)<F(J) THEN 2780
1150 GOTO 1020

```



```

1160 REM TRABAJO NORMAL HACIA ARRIBA
1170 FOR I=1 TO N1/2 STEP 1
1180 LET X(I)=X(I)-0.001
1190 LET X(N1-I+1)=X(N1-I+1)-0.001
1200 GOSUB 1330
1210 NEXT I
1220 GOSUB 2010
1230 FOR I=1 TO N2/2 STEP 1
1240 LET Y(I)=Y(I)+0.001
1250 LET Y(N2-I+1)=Y(N2-I+1)+0.001
1260 GOSUB 1670
1270 NEXT I
1280 GOSUB 2140
1290 IF F(J-1)<F(J) THEN 2700
1300 PRINT
1310 GOTO 1170
1320 REM CALCULO COEFICIENTE DE DIFUSION EN FASE SUPERIOR
1330 LET L1=1
1340 LET X1=00*0.25
1350 LET X4=00*5
1360 LET X2=X1+0.5*(X4-X1-D1)
1370 LET C=X2
1380 LET K=I
1390 GOSUB 2400
1400 LET K=N1-I+1
1410 GOSUB 2400
1420 LET Y2=ABS(S(I)-S(N1-I+1))
1430 LET X3=X2+D1
1440 LET C=X3
1450 LET K=I
1460 GOSUB 2400
1470 LET K=N1-I+1
1480 GOSUB 2400
1490 LET Y3=0
1500 LET Y3=ABS(S(I)-S(N1-I+1))
1510 IF Y2>Y3 THEN 1550
1520 IF Y2=Y3 THEN 1590
1530 LET X4=X3
1540 GOTO 1560
1550 LET X1=X2
1560 IF L1=150 THEN 1620
1570 LET L1=L1+1
1580 IF X4-X1>3*01 THEN 1360
1590 LET X5=0.5*(X2+X3)
1600 LET D(I)=X5
1610 GOTO 1630
1620 PRINT "MAS DE 150 PASOS"
1630 PRINT USING 1640,I,X(I),N1-I+1,X(N1-I+1),I,D(I)
1640 : X(##)=##.### X(##)=##.### D(##)=##.#####↑↑↑
1650 RETURN
1660 REM CALCULO DEL COEFICIENTE DE DIFUSION EN LA FASE INFERIOR
1670 LET L1=1
1680 LET X1=00*0.25
1690 LET X4=00*5
1700 LET X2=X1+0.5*(X4-X1-D1)
1710 LET C=X2
1720 LET K=I
1730 GOSUB 2580
1740 LET K=N2-I+1
1750 GOSUB 2580
1760 LET Y2=ABS(S(I)-S(N2-I+1))

```



```

1770 LET X3=X2+D1
1780 LET C=X3
1790 LET K=I
1800 GOSUB 2580
1810 LET K=N2-I+1
1820 GOSUB 2580
1830 LET Y3=0
1840 LET Y3=ABS(S(I)-S(N2-I+1))
1850 IF Y2>Y3 THEN 1990
1860 IF Y2=Y3 THEN 1930
1870 LET X4=X3
1880 GOTO 1900
1890 LET X1=X2
1900 IF L1=150 THEN 1960
1910 LET L1=L1+1
1920 IF X4-X1>3*01 THEN 1780
1930 LET X5=.5*(X2+X3)
1940 LET B(I)=X5
1950 GOTO 1970
1960 PRINT "MAS DE 150 PASOS"
1970 PRINT USING 1980,I,Y(I),N2-I+1,Y(N2-I+1),I,B(I)
1980 : Y(##)=##.#### Y(##)=##.#### D(##)=##.#####↑↑↑↑
1990 RETURN
2000 REM CALCULO DE LA DESVIACION EN LA FASE SUPERIOR
2010 LET A1=0
2020 LET D2=0
2030 FOR I=1 TO N1/2 STEP 1
2040 LET D2=D2+D(I)
2050 NEXT I
2060 LET D3=D2*2/N1
2070 FOR I=1 TO N1/2 STEP 1
2080 LET A1=A1+(D(I)-D3)↑2
2090 NEXT I
2100 LET S1=SQR(2*A1/N1)
2110 PRINT "D MEDIA=";D3,"S1=";S1
2120 RETURN
2130 REM CALCULO DE LA DESVIACION EN LA FASE INFERIOR
2140 LET A1=0
2150 LET D2=0
2160 FOR I=1 TO N2/2 STEP 1
2170 LET D2=D2+B(I)
2180 NEXT I
2190 LET D4=D2*2/N2
2200 FOR I=1 TO N2/2 STEP 1
2210 LET A1=A1+(B(I)-D4)↑2
2220 NEXT I
2230 LET S2=SQR(2*A1/N2)
2240 PRINT "D MEDIA=";D4,"S2=";S2
2250 LET J=J+1
2260 LET C6=0
2270 FOR I=1 TO N1/2 STEP 1
2280 LET C6=C6+(D(I)-(D3+D4)/2)↑2
2290 NEXT I
2300 FOR I=1 TO N2/2 STEP 1
2310 LET C6=C6+(B(I)-(D3+D4)/2)↑2
2320 NEXT I
2330 LET F(J)=SQR(2*C6/(N1+N2))
2340 PRINT "VALOR MEDIO=";(D3+D4)/2
2350 PRINT USING 2360,J,F(J)
2360 : F(##)=##.#####↑↑↑↑
2370 PRINT
2380 RETURN

```

Universitat d'Alacant
Universidad de Alicante

```
2390 REMCALCULO DE LA INTEGRAL EN FASE SUPERIOR
2400 LET L=60
2410 LET S(K)=0
2420 LET A=X(K)/(2*SQR(T2*C))
2430 LET B3=X(K)/(2*SQR(T1*C))
2440 LET H=(B3-A)/L
2450 LET C9=1
2460 LET S(K)=S(K)+C9*EXP(-A^2)
2470 LET A=A+H
2480 LET L=L-1
2490 IF L=0 THEN 2550
2500 IF C9=4 THEN 2530
2510 LET C9=4
2520 GOTO 2460
2530 LET C9=2
2540 GOTO 2460
2550 LET S(K)=H*(S(K)+EXP(-A^2))/(3*(2*T(K)+1))
2560 RETURN
2570 REM CALCULO DE LA INTEGRAL EN LA FASE INFERIOR
2580 LET L=60
2590 LET S(K)=0
2600 LET A=Y(K)/(2*SQR(T2*C))
2610 LET B3=Y(K)/(2*SQR(T1*C))
2620 LET H=(B3-A)/L
2630 LET C9=1
2640 LET S(K)=S(K)+C9*EXP(-A^2)
2650 LET A=A+H
2660 LET L=L-1
2670 IF L=0 THEN 2730
2680 IF C9=4 THEN 2710
2690 LET C9=4
2700 GOTO 2640
2710 LET C9=2
2720 GOTO 2640
2730 LET S(K)=H*(S(K)+EXP(-A^2))/(3*(2*T(K)+1))
2740 RETURN
2750 PRINT
2760 PRINT "F(";J-2;")=";F(J-2)
2770 GOTO 2790
2780 PRINT "F(";J-1;")=";F(J-1)
2790 PRINT
2800 PRINT
2810 END
```

END OF LISTING



- 237 -

Universitat d'Alacant
Universidad de Alicante

BIBLIOGRAFIA

- AGAR, J.N. y LOBO, V.M.M. (1975) J.Chem.Soc., Faraday Trans. 71,1659.
- ALBRIGHT, J.G. y MILLS, R. (1965) J. Phys. Chem. 69,3120.
- ALVAREZ, R. y SANCHEZ, V. (1980) Ingen. Quim. 138,179.
- ALVAREZ, R.; BUENO, J.L. y ANDRES, L.J. (1982) Ingen. Quim. 154,137
- ARNOLD, J.H. (1930) J. Am. Chem. Soc. 52,3937.
- ANDERSSON, J.S. y SADDINGTON, K. (1949) J.Chem.Soc. S381.
- BEARMAN, R.J. (1961) J. Phys. Chem. 65, 1961.
- BECSEY, J.G.; MADDUX, G.E.; JACKSON, N.R. y BIERLEIN, J.A. (1970) J. Phys. Chem. 74,1401.
- BECSEY, J.G.; JACKSON, N.R. y BIERLEIN, J.A. (1971) J. Phys. Chem. 75,3374.
- BEDARIDA, F.; ZEFIRO, F. y PONTIGGIA, C. (1974) "Applications of Holography and Optical Data Processing". Pergamon Press.
- BIERLEIN, J.A. y BECSEY, J.G. (1973) Tech. Electrochem. 2,117.
- BIRD, R.B.; STEWART, W.E. y LIGHTFOOT, E.N. (1964) "Fenómenos de transporte", cap. 16. Edit. Reverté.
- BOCHNER, N. y PIPMAN, J. (1976) J. Phys. D: Appl. Phys. 9,1825.
- BORN, M. y WOOLF, E. (1974) "Principles of Optics". Pergamon Press.
- BROOKS, R.E.; HEFLINGER, L.O. y WUERKER, R.F. (1965) Appl. Phys. Lett. 7,248.

- BUDZIAK, A.; ZINNAL, M. y CZAPKIEWICZ, A. (1971) Acta Phys. Pol. A 40, 545.
- CALDWELL, C.S. y BABB, D.L. (1956) J. Phys. Chem. 60, 51.
- CARR, M. y PURCELL, E.M. (1954) Phys. Rev. 94, 630.
- Chemical Engineer's Handbook (1973) Perry, R.H. y Chilton, C.H. edit., McGraw-Hill.
- COLLIER, R.J. y col. (1971) "Optical Holography". Academic Press.
- CRANK, J. (1979) "The Mathematics of Difusion" Clarendon Press.
- DOUGLAS, D.C. y McCALL, D.W. (1958) J. Phys. Chem. 67, 1102.
- DUROU, C. (1973) J. Phys. E. 6, 1116.
- DUROU, C.; GIRAUDOU, J.C.; MAHENC, J. (1972) C.R. Acad. Sc. Paris 275, 761
- DUROU, C.; GIRAUDOU, J.C. y MOUTOU, C. (1973) J. Chem. Eng. Data 18, 289.
- DUROU, C.; MOUTOU, C. y MAHENC, J. (1974) J. Chim. Phys. 71, 271.
- EMANUEL, A. y OLANDER, D.R. (1962) J. Chem. Eng. Data 8, 31.
- EVERSOLE, G.; KINDSVATER, H.M. y PETERSON, J.D. (1942) J. Phys. Chem. 46, 370.
- ERTL, H.; GHAI, R.K. y DULLIEN, F.A.L. (1974) AIChE J. 20, 1.
- FRANCON, M. (1970) "Holography" Masson, Paris.
- FREY, D.D. y KING, C.J. (1982) J. Chem. Eng. Data 27, 419.
- GABELMANN-GRAY, I. y FENICHEL, H. (1979) Appl. Opt. 18, 343.

- GABOR, D. (1949) Proc. Roy. Soc. A 197, 454.
- GABOR, D. (1951) Proc. Phys. Soc. B 64, 449.
- GEDDES, A.L. y PONTIUS, R.B. "Physical Methods of Chemistry" John Wiley.
- GHAI, R.K., ERTL, H. y DULLIEN, F.A.L. (1973) AIChE J. 19, 881.
- GHAI, R.K. y DULLIEN, F.A.L. (1974) J. Phys. Chem. 78, 2283.
- GILLILAND, E.R. (1934) Ing. Ind. Chem. 26, 661.
- GLASSTONE, S.; LAIDLER, K.J. y EYRING, H. (1941) "Theory of rate processes" McGraw-Hill.
- GOSTING, J. (1950) J. Am. Chem. Soc. 72, 4418.
- GRAHAM, T. (1862) Pogg. Ann. 121, 1.
- HAHN, E.L. (1950) Phy. Rev. 80, 580.
- HAHN, E.L. (1953) Phys. Today 6, 1.
- HARNED, H.S. y FRENCH, D.H. (1945) Ann. N.Y. Acad. Sc. 46, 267.
- HARNED, H.S. y NUTTALL, R.L. (1947) J. Am. Chem. Soc. 69, 736.
- HARNED, H.S. y NUTTALL, R.L. (1949) J. Am. Chem. Soc. 71, 1460.
- HARTLEY, G.S. y CRANK, J. (1949) J. Trans. Faraday 45, 801.
- HEFLINGER, L.O.; WUERKER, R.F. y BROOKS, R.E. (1966) J. Appl. Phys. 37, 642.
- HORMAN, M.H. (1965) Appl. Op. 4, 333.
- JAMIESON, A.M. y WALTON, A.G. (1973) J. Chem. Phys. 58, 1054.
- JOHNSON, P.A. y BABB, A.L. (1956) Chem. Rev. 56, 387.

- KEGELES, G. y GOSTING, L. J. (1947) J. Am. Chem. Soc. 69, 2516.
- KUMAR, S. y UPADHYAY, S. (1980) Ind. Eng. Chem. Fund. 19, 75.
- LEALST, D. G. y LYONS, P. A. (1982) J. Phys. Chem. 86, 564.
- LEWIS, J. B. (1955) J. Appl. Chem. 5, 228.
- LONGSWORTH, L. J. (1947) J. Am. Chem. Soc. 69, 2510.
- LONGSWORTH, L. J. (1952) J. Am. Chem. Soc. 74, 4155 .
- MILLS, R. y BOLAND, R. J. (1968) J. Sci. Inst. 1, 483.
- NAKANISHI, K. y OZASA, T. (1970) J. Phys. Chem. 74, 2956.
- NORTHROP, J. H. y ANSON, M. L. (1929) J. Gen. Physiol. 12, 543.
- PRATT, K. C. y WAKEHAM, W. A. (1974) Proc. Roy. Soc. London A
336, 393.
- RARD, J. A. y MILLER, D. G. (1980) J. Chem. Eng. Data 25, 211.
- REID, R. C.; PRAUSTNIZ, J. M. y SHERWOOD, T. K. (1977) "The Properties of Gases and Liquids" McGraw-Hill.
- REUNER, T. A. y LYONS, P. A. (1974) J. Phys. Chem. 78, 1667.
- ROBINSON, R. H.; EDMISTER, W. C. y DULLIEN, F. A. L. (1965) J. Phys. Chem. 69, 258.
- ROBINSON, R. A. y STOKES, R. H. (1959) "Electrolyte Solutions" Academic Press.
- ROFFEL, B. y VAN DE GRAAF, J. J. (1977) J. Chem. Eng. Data 22, 300.
- RUIZ, F.; FERNANDEZ, J.; SANTOS, C.; CELDRAN, A. (1982) XIX Reunión Bienal R. S. E. F. Q. Santander.

- SANCHEZ, V.; OFTADEH, H.; DUROU, C. y HOT, J. P. (1977) J. Chem. Eng. Data 22, 123.
- SANCHEZ, V. y CLIFTON, M. (1978) J. Chem. Eng. Data 23, 209.
- SAXTON, R. L. y DRICKAMER, H. G. (1974) J. Chem. Phys. 21, 1360.
- SHUSTIN, O. A.; VELICHKINA, T. S.; CHERNEVICH, T. G. y JAKOVLEV, I. A. (1975) JETP Lett. 21, 24.
- SORELL, L. S. y MYERSSON, A. S. (1982) AIChE J. 28, 772.
- STOKES, R. H. (1950 a) J. Am. Chem. Soc. 72, 763.
- STOKES, R. H. (1950 b) J. Am. Chem. Soc. 72, 2243.
- STOKES, R. H. ; DUNLOP, P. J. y HALL, J. R. (1953) Trans. Faraday Soc. 49, 886.
- STEJSKAL, E. O. y TANNER, J. E. (1965) J. Chem. Phys. 42, 288.
- SWENSON, H. (1954) Optica Acta 1, 25.
- SZYDLOWSKA, J. y JANOWSKA, B. (1982) J. Phys. D: Appl. Phys. 15, 1385.
- TASIC, A. Z.; DJORDJEVIC, B. D.; SERVANOVIC, S. P. y GROZDANIC, D. K. (1981) J. Chem Eng. Data 26, 118.
- TIRRELL, H. J. V. y WATKISS, P. J. (1976) Ann. Rep. Prog. Chem. Sec. A Phys. Inorg. Chem. 73, 35.
- VAN GEET, A. L. y ADAMSON, A. W. (1964) J. Phys. Chem. 68, 238.
- VEST, C. M. (1979) "Holographic Interferometry". John Wiley.
- VITAGLIANO, V.; SARTORIO, R.; CHIARAVALLE, E. y ORTONA, E. (1980) J. Chem Eng. Data 25, 121.
- WANG, J. H. (1952) J. Am. Chem. Soc. 74, 4181.

WANG, J. H. (1953) J. Am. Chem. Soc. 75, 2777.

WAKEHAM, W. A. (1981) Faraday Symp. Chem. Soc. 15, 145.

WILLIAMSON, B. G. y GEANKOPLIS, C. J. (1981) J. Chem. Eng. Data
26, 368.

WOESSNER, D. E. (1960) Rev. Sci. Inst. 31, 1146.

WOOLF, L. A. y HOVELING, A. W. (1970) J. Phys. Chem. 74, 2406.