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| 1. Record Nr. | UNISALENTO991004039029707536 |
| Autore | Calogero, F. |
| Titolo | Classical many-body problems amenable to exact treatments : solvable and/or integrable and/or linearizable... in one-, two-, and three-dimensional space / Francesco Calogero |
| Pubbl/distr/stampa | Berlin ; New York : Springer, c2001 |
| ISBN | 3540417648 (alk. paper) |
| Descrizione fisica | xviii, 749 p. ; 24 cm. |
| Collana | Lecture notes in physics. New series m, Monographs ; m66 Lecture notes in physics. Monographs, 0940-7677 ; m66 |
| Classificazione | LC QB362.M3 53.1.64 |
| Disciplina | 521 |
| Soggetti | Many-body problem |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references (p. 735-749). |

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| 2. Record Nr. | UNINA9911010526103321 |
| Autore | Durdiev Durdimurod K |
| Titolo | Inverse Problems for Fractional Diffusion Equations // by Durdimurod K. Durdiev |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025 |
| ISBN | 981-9653-38-X |
| Edizione | [1st ed. 2025.] |
| Descrizione fisica | 1 online resource (476 pages) |
| Collana | Industrial and Applied Mathematics, , 2364-6845 |
| Disciplina | 515.625 515.75 |
| Soggetti | Difference equations Functional equations Difference and Functional Equations Equacions diferencials Llibres electrònics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Coefficient Determination Problems with Local Boundary and Overdetermination Conditions -- Inverse Coefficient Problems with Nonlocal Initial and Integral Overdetermination Conditions -- Coefficient Determination Problems with Cauchy and Overdetermination Conditions -- Carleman Estimate Method in Inverse Problems for a Fractional Diffusion Equation -- Determination of Source and Initial Functions -- Convolution Kernel Determination Problems in Fractional Diffusion Equations -- Determining Two Unknown Functions in a Fractional Diffusion Equation. |
| Sommario/riassunto | This book discusses various inverse problems for the time-fractional diffusion equation, such as inverse coefficient problems (nonlinear problems) and inverse problems for determining the right-hand sides of equations and initial functions (linear problems). The study of inverse problems requires a comprehensive investigation of direct problems (such as representation formulas, a priori estimates and differential properties of the solution). This is particularly evident in nonlinear problems, where obtaining solvability theorems necessitates careful tracking of the exact dependence of the differential properties |

of the solution to the direct problem on the smoothness of the coefficients and other problem data. Therefore, a significant portion of the book is devoted to direct problems, such as initial problems (Cauchy problems) and initial-boundary value problems with various boundary conditions.
