

1. Record Nr.	UNINA9910903786703321
Autore	Zhou Yong <1476-1547, >
Titolo	Fractional Diffusion and Wave Equations : Well-posedness and Inverse Problems // by Yong Zhou
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031740312 3031740319
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (355 pages)
Collana	Mathematics and Statistics Series
Disciplina	515.35
Soggetti	Integral equations Mathematical analysis Integral Equations Analysis Equacions diferencials Fraccions Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Introduction -- Preliminaries -- Well-posedness of Fractional Diffusion Equations -- Inverse Problems of Fractional Diffusion Equations -- Well-posedness and Regularity of Fractional Wave Equations -- Inverse Problems of Fractional Wave Equations -- References -- Index.
Sommario/riassunto	This monograph delves into the theory of time-fractional diffusion and wave equations, presenting a comprehensive exploration of recent advancements in the field. Key topics include well-posedness, regularity, and approximate controllability of Cauchy problems, as well as the existence and regularity of terminal value problems. Detailed examples illustrate the applications of these equations, demonstrating their practical relevance. The content is rooted in research conducted by the author and other experts over the past five years, offering a thorough foundation for further study. This work is an invaluable resource for researchers, graduate students, and PhD candidates in the fields of differential equations, applied analysis, and related areas.

