

1. Record Nr.	UNINA9910819008403321
Autore	Trigeassou Jean-Claude
Titolo	Analysis, modeling and stability of fractional order differential systems . 1 The infinite state approach / / Jean-Claude Trigeassou, Nezha Maamri
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : ISTE Ltd : , : Wiley, , [2019] ©2019
ISBN	1-119-64881-5 1-119-47691-7 1-119-64884-X
Edizione	[First edition]
Descrizione fisica	1 online resource (320 pages)
Collana	Systems and industrial engineering series. THEI Wiley ebooks.
Disciplina	515.35
Soggetti	Fractional differential equations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	This book introduces an original fractional calculus methodology ('the infinite state approach') which is applied to the modeling of fractional order differential equations (FDEs) and systems (FDSs). Its modeling is based on the frequency distributed fractional integrator, while the resulting model corresponds to an integer order and infinite dimension state space representation. This original modeling allows the theoretical concepts of integer order systems to be generalized to fractional systems, with a particular emphasis on a convolution formulation.