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Autore	Jacod, Jean
Titolo	Probability essentials / Jean Jacod, Philip Protter
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Descrizione fisica	X, 254 p. ; 24 cm
Altri autori (Persone)	Protter, Philip
Soggetti	60-XX - Probability theory and stochastic processes [MSC 2020] 60G42 - Martingales with discrete parameter [MSC 2020] 60E05 - Probability distributions: general theory [MSC 2020] 60E10 - Characteristic functions; other transforms [MSC 2020]
Lingua di pubblicazione	Inglese
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Autore	Denicol Gabriel S.
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Descrizione fisica	1 online resource (306 pages)
Collana	Lecture Notes in Physics, , 1616-6361 ; ; 990
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Soggetti	Nuclear physics Mathematical physics Physics Astrophysics Nuclear Physics Mathematical Methods in Physics Classical and Continuum Physics Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
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Nota di contenuto	Relativistic Fluid Dynamics -- Linear Stability and Causality -- Analytical Solutions and Transient Dynamics -- Microscopic Origin of Transport Coeffcients: Linear-Response Theory -- Fluid Dynamics from Kinetic Theory: Traditional Approaches -- Method of Moments: Equilibrium Reference State -- Method of Moments: Convergence Properties -- Fluid Dynamics from the Method of Moments -- Method of Moments: Anisotropic Reference State.
Sommario/riassunto	This book provides an introduction to relativistic dissipative fluid dynamics, with particular emphasis on its derivation from microscopic transport theory. After a phenomenological derivation of relativistic dissipative fluid dynamics from the second law of thermodynamics, the intrinsic instabilities of relativistic Navier-Stokes theory are discussed. In turn, analytical solutions of relativistic dissipative fluid dynamics are presented. Following, the authors discuss several theories and approaches to derive transport coefficients in dissipative fluid dynamics

such as the Chapman-Enskog theory, the theory of Israel and Stewart, and a more recent derivation of relativistic dissipative fluid dynamics based on kinetic theory, which constitutes the main focus of the second part of this book. This book is intended for advanced graduate students and researchers in physics and requires basic knowledge of the theory of special and general relativity. It should be of particularinterest to researchers that apply relativistic fluid dynamics in cosmology, astrophysics, and high-energy nuclear physics.