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Titolo	Semi-Markov Models : Theory and Applications / edited by Jacques Janssen
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Descrizione fisica	x, 588 p. : ill. ; 24 cm
Soggetti	60-XX - Probability theory and stochastic processes [MSC 2020] 00B25 - Proceedings of conferences of miscellaneous specific interest [MSC 2020] 60K15 - Markov renewal processes, semi-Markov processes [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910963979403321
Autore	Tuck Adrian F
Titolo	Atmospheric turbulence : a molecular dynamics perspective // Adrian F. Tuck
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Soggetti	Atmospheric turbulence Molecular dynamics Wave mechanics
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Nota di bibliografia	Includes bibliographical references (p. [121]-135) and index.
Nota di contenuto	Intro -- Contents -- Chapter 1. Introduction -- 1.1 History -- 1.2 The

importance of computers -- 1.3 Airborne observations -- Chapter 2. Initial Survey of Observations -- 2.1 An introduction to lower stratospheric research aircraft flights -- 2.2 A summary of the average scaling behaviour of in situ observations -- Chapter 3. Relevant Subjects -- 3.1 Kinetic molecular theory -- 3.2 Turbulence -- 3.3 Fluid mechanics -- 3.4 Non-equilibrium statistical mechanics -- 3.5 Summary -- Chapter 4. Generalized Scale Invariance -- 4.1 Mathematical framework of generalized scale invariance -- 4.2 Scaling of observations: $H_{(1)}$ -- 4.3 Polar lower stratosphere: $H_{(1)}$, $C_{(1)}$, and $\rho_{(1)}$ -- 4.4 Summary -- Chapter 5. Temperature Intermittency and Ozone Photodissociation -- 5.1 The Arctic lower stratosphere -- 5.2 What is atmospheric temperature? -- Chapter 6. Radiative and Chemical Kinetic Implications -- 6.1 Radiative transfer implications -- 6.2 Chemical kinetic implications -- 6.3 Cloud physical implications -- 6.4 Summary -- Chapter 7. Non-Equilibrium Statistical Mechanics -- 7.1 Maximization of entropy production -- 7.2 Summary -- Chapter 8. Summary, Quo Vadimus? and Quotations -- 8.1 Summary -- 8.2 Quo vadimus? -- 8.3 Some relevant quotations -- 8.4 The arrow of time -- References -- Bibliography -- Glossary -- A -- B -- C -- D -- E -- F -- G -- H -- I -- J -- K -- L -- M -- N -- O -- P -- R -- S -- T -- V -- W -- Index -- A -- B -- C -- D -- E -- F -- G -- H -- I -- J -- K -- L -- M -- N -- O -- P -- Q -- R -- S -- T -- V -- W -- Z.

Sommario/riassunto

This book focuses on the direct link between molecular dynamics and atmospheric variation, uniting molecular dynamics, turbulence theory, fluid mechanics and non equilibrium statistical mechanics.
