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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preliminaries; Contents; Preface; Chapter 1 Definitions of fundamental quantities of the radiation field; Chapter 2 The equation of radiative transfer; Chapter 3 Methods of solution of the transfer equation; Chapter 4 Two-point boundary problems; Chapter 5 Principle of invariance; Chapter 6 Discrete space theory; Chapter 7 Transfer equation in moving media: the observer frame; Chapter 8 Radiative transfer equation in the comoving frame; Chapter 9 Escape probability methods; Chapter 10 Operator perturbation methods; Chapter 11 Polarization; Chapter 12 Polarization in magnetic media Chapter 13 Multi-dimensional radiative transfer Symbol index; Index
Sommario/riassunto	Astrophysicists have developed several very different methodologies for solving the radiative transfer equation. An Introduction to Radiative Transfer presents these techniques as applied to stellar atmospheres, planetary nebulae, supernovae, and other objects with similar

geometrical and physical conditions. Accurate methods, fast methods, probabilistic methods and approximate methods are all explained, including the latest and most advanced techniques. The book includes the different techniques used for computing line profiles, polarization due to resonance line scattering, polarization in magnetic media and similar phenomena. Exercises at the end of each chapter enable these methods to be put into practice, and enhance understanding of the subject. This 2001 book will be valuable to graduates, postgraduates and researchers in astrophysics.
