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Descrizione fisica	1 online resource (XVIII, 192 p. 69 illus., 15 illus. in color.)
Collana	Astronomy and Planetary Sciences, , 2366-0082
Disciplina	520
Soggetti	Astronomy Astronomy—Observations Optics Electrodynamics Physical measurements Measurement Spectrum analysis Microscopy Astronomy, Observations and Techniques Classical Electrodynamics Measurement Science and Instrumentation Spectroscopy and Microscopy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Preface -- Acknowledgements -- Signal, Distortion, and Noise -- The atmosphere and how to avoid it -- Mapping the Sky -- Detection of Light -- Spectroscopy -- Overview of Statistics -- Basic orbital mechanics -- References -- Glossary -- Solutions -- Index.
Sommario/riassunto	This book on astronomical measurement takes a fresh approach to teaching the subject. After discussing some general principles, it follows the chain of measurement through atmosphere, imaging, detection, spectroscopy, timing, and hypothesis testing. The various wavelength regimes are covered in each section, emphasising what is the same, and what is different. The author concentrates on the physics

of detection and the principles of measurement, aiming to make this logically coherent. The book is based on a short self contained lecture course for advanced undergraduate students developed and taught by the author over several years.
