1. Record Nr. UNINA9910451134603321

Autore	Fewster Paul F
Titolo	X-ray scattering from semiconductors [[electronic resource] /] / Paul F. Fewster
Pubbl/distr/stampa	River Edge, NJ, : Imperial College Press, c2003
ISBN	1-62870-231-1 1-281-86636-9 9786611866365 1-86094-458-2
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (310 p.)
Disciplina	539.7222
Soggetti	X-rays - Scattering Semiconductors Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Copyright; Preface; Contents; 1 - An Introduction to Semiconductor Materials; 2 - An Introduction to X-Ray Scattering; 3 - Equipment for Measuring Diffraction Patterns; 4 - A Practical Guide to the Evaluation of Structural Parameters; Appendix 1; Subject Index
Sommario/riassunto	This book presents a practical guide to the analysis of materials and includes a thorough description of the underlying theories and instrumental aberrations caused by real experiments. The main emphasis concerns the analysis of thin films and multilayers, primarily semiconductors, although the techniques are very general. Semiconductors can be very perfect composite crystals and therefore their study can lead to the largest volume of information, since X-ray scattering can assess the deviation from perfection.

2.

Record Nr.	UNINA9910438107403321
Autore	Hubbell Gerald R
Titolo	Scientific astrophotography : how amateurs can generate and use professional imaging data / / Gerald R. Hubbell
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	1-283-90797-6 1-4614-5173-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (355 p.)
Collana	Patrick Moore's practical astronomy series, , 1431-9756
Disciplina	522.623
Soggetti	Astronomical photography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. I. Astronomical imaging system (AIS) components, characteristics, and performance factors -- pt. II. Astronomical imaging system (AIS) integration and operation -- pt. III. Scientific image data analysis and advanced amateur scientific projects.
Sommario/riassunto	Scientific Astrophotography is a work for those amateur astronomers looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It is a wonderful reference for scientifically-inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This book is a wealth of information and a distillation of ideas presented by a diverse set of sources and based on the most recent techniques, equipment, and data available. It also includes numerous exercises for the reader, to maximize the success and minimize the frustration inherent in the pursuit of this specific craft. Scientific Astrophotography is perfect for any amateur astronomer who wants to go beyond just the process of making beautiful images and actually contribute to the science of astronomy! "...Gerald Hubbell's new book, Scientific Astrophotography, is the perfect companion for anyone dipping their toe into the digital imaging realm for the first time. The author answers all the questions people have when starting out, such as how do I get the most bang for my buck, and how do I select the right CCD for my telescope?" - Mike Simonsen, American Association of Variable Star Observers.