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Autore	Pindyck, Robert S.
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Altri autori (Persone)	Rubinfeld, Daniel L.
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Lingua di pubblicazione	Italiano
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2. Record Nr.	UNINA9910254615703321
Autore	Morelhão Sérgio Luiz
Titolo	Computer Simulation Tools for X-ray Analysis : Scattering and Diffraction Methods / / by Sérgio Luiz Morelhão
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Collana	Graduate Texts in Physics, , 1868-4513
Disciplina	548.83
Soggetti	Crystallography Materials science Chemistry, Physical and theoretical Physics Crystallography and Scattering Methods Characterization and Evaluation of Materials Physical Chemistry Numerical and Computational Physics, Simulation
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Nota di contenuto	Radiation-electron (free electron) elementary interaction -- Scattering of X-rays by distributions of free electrons -- Atoms and molecules -- X-ray absorption -- Low correlated systems: gases and dilute solutions -- Complex systems I: short-range correlations -- Complex systems II: arbitrary long-range correlations -- Crystals -- Application of kinematic diffraction -- Introduction to dynamical diffraction.
Sommario/riassunto	<p>The main goal of this book is to break down the huge barrier of difficulties faced by beginners from many fields (Engineering, Physics, Chemistry, Biology, Medicine, Material Science, etc.) in using X-rays as an analytical tool in their research. Besides fundamental concepts, MatLab routines are provided, showing how to test and implement the concepts. The major difficult in analyzing materials by X-ray techniques is that it strongly depends on simulation software. This book teaches the users on how to construct a library of routines to simulate scattering and diffraction by almost any kind of samples. It provides to a young student the knowledge that would take more than 20 years to acquire by working on X-rays and relying on the available textbooks. In this book, fundamental concepts in applied X-ray physics are demonstrated through available computer simulation tools. Using MatLab, more than eighty routines are developed for solving the proposed exercises, most of which can be directly used in experimental data analysis. Therefore, besides X-ray physics, this book offers a practical programming course in modern high-level language, with plenty of graphic and mathematical tools.</p>