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Titolo	Mössbauer Spectroscopy : Tutorial Book // edited by Yutaka Yoshida, Guido Langouche
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-32220-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (310 p.)
Disciplina	543.085
Soggetti	Nuclear physics Atomic structure Molecular structure Spectrum analysis Geophysics Materials science Particle and Nuclear Physics Atomic/Molecular Structure and Spectra Spectroscopy/Spectrometry Geophysics/Geodesy Characterization and Evaluation of Materials
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	General Introduction to Mössbauer Spectroscopy (S. Nasu) -- Chemical Applications of Mössbauer Spectroscopy (P. Gütlich and Y. Garcia) -- Application of Mössbauer Spectroscopy in Earth Sciences (R. E. Vandenberghe) -- Fe-based Nanostructures Investigated by Mössbauer Spectrometry (J.-M. Greneche) -- Magnetic Multilayers and Interfaces (T. Shinjo and K. Mibu) -- Implantation Techniques to Extract Atomistic Information in Materials Research (G. Langouche and Y. Yoshida).
Sommario/riassunto	Tutorials on Mössbauer Spectroscopy Since the discovery of the Mössbauer Effect many excellent books have been published for researchers and for doctoral and master level students. However, there appears to be no textbook available for final year bachelor students,

nor for people working in industry who have received only basic courses in classical mechanics, electromagnetism, quantum mechanics, chemistry and materials science. The challenge of this book is to give an introduction to Mössbauer Spectroscopy for this level. The ultimate goal of this book is to give this audience not only a scientific introduction to the technique, but also to demonstrate in an attractive way the power of Mössbauer Spectroscopy in many fields of science, in order to create interest among the readers in joining the community of Mössbauer spectroscopists. This is particularly important at times where in many Mössbauer laboratories succession is at stake.
