

1. Record Nr.	UNINA9910736998403321
Titolo	Neutron scattering : applications in biology, chemistry, and materials science // edited by Felix Fernandez-Alonso and David L. Price
Pubbl/distr/stampa	Cambridge, Massachusetts : , : Academic Press, , 2017 ©2017
ISBN	0-12-809230-0 0-12-805324-0
Descrizione fisica	1 online resource (755 pages) : illustrations, tables
Collana	Experimental Methods in the Physical Sciences ; ; Volume 49
Disciplina	539.7213
Soggetti	Neutrons - Scattering Neutrons
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Biological structures / Zoe Fisher, Andrew Jackson, Andrey Kovalevsky, Esko Oksanen, and Hanna Wacklin -- Dynamics of biological systems / Tilo Seydel -- The structure of water and aqueous systems / Alan K. Soper -- Ionic liquids and neutron scattering / Olga Russina and Alessandro Triolo -- Catalysis / Peter W. Albers, David Lennon, and Stewart F. Parker -- Sorbate dynamics in zeolite catalysts / Alexander J. O'Malley and C. Richard A. Catlow -- Atomic quantum dynamics in materials research / Carla Andreani, Roberto Senesi, Matthew Krzystyniak, Giovanni Romanelli, and Felix Fernandez-Alonso -- Soft condensed matter / Mitsuhiro Shibayama -- Ionic conductors and protonics / Maths Karlsson and Adrien Perrichon -- High-temperature levitated materials / Louis Hennes, Dirk Holland Moritz, Richard Weber, and Andreas Meyer -- High-pressure neutron science / Malcolm Guthrie -- Engineering applications / Wanchuck Woo, Masato Ohnuma, and Xun-Li Wang.
Sommario/riassunto	"Neutron Scattering: Applications in Chemistry, Materials Science and Biology, Volume 49, provides an in-depth overview of the applications of neutron scattering in the fields of physics, materials science, chemistry, biology, the earth sciences, and engineering. The book describes the tremendous advances in instrumental, experimental, and

computational techniques over the past quarter-century. Examples include the coming-of-age of neutron reflectivity and spin-echo spectroscopy, the advent of brighter accelerator-based neutron facilities and associated techniques in the United States and Japan over the past decade, and current efforts in Europe to develop long-pulse, ultra-intense spallation neutron sources. It acts as a complement to two earlier volumes in the Experimental Methods in the Physical Science series, *Neutron Scattering: Fundamentals* (Elsevier 2013) and *Neutron Scattering: Magnetic and Quantum Phenomena* (Elsevier 2015). As a whole, the set enables researchers to identify aspects of their work where neutron scattering techniques might contribute, conceive the important experiments to be done, assess what is required, write a successful proposal for one of the major facilities around the globe, and perform the experiments under the guidance of the appropriate instrument scientist." --

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