1. Record Nr. UNINA9910484915303321

Titolo	Frontiers and progress of current soft matter research / / Xiang-Yang Liu, editor
Pubbl/distr/stampa	Gateway East, Singapore : , : Springer, , [2021] Â©2021
ISBN	981-15-9297-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (VII, 352 p. 95 illus., 79 illus. in color.)
Collana	Soft and Biological Matter, , 2213-1736
Disciplina	530.413
Soggetti	Soft condensed matter
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction to Nonequilibrium Statistical Physics and its Foundations -- 2. On the Foundational Principles of Statistical Mechanics -- 3. Generalized Onsager Principle and It Applications -- 4. An Introduction to Emergence Dynamics in Complex Systems -- 5. Basics of Molecular Modeling and Molecular Simulation -- 6. Cocoon Silk: from Mesoscopic Materials Design to Engineering Principles and Applications -- 7. A Primer on Gels (with an Emphasis on Molecular Gels) -- 8. Fréedericksz-like Positional Transition Triggered by an External Electric Field.
Sommario/riassunto	This book covers some fundamental aspects and frontiers in non-equilibrium physics and soft matter research. Apart from the basic knowledge on nonlinear statistic physics, dynamics, computer simulations, and main approaches and emerging systems in soft matter research, particular attention is devoted to new conceptual flexible functional materials and the enriching areas, such as silk meso-molecular materials, molecular gels, liquid crystals, flexible electronics and new types of catalysis, etc. One of the main characteristics of this book is to start with the structure formation dynamics and the correlation between the structures and macroscopic performance. This lays down the foundation for the mesoscopic materials design and functionalization. The book is intended for upper undergraduate students, graduate students, and researchers who are interested in soft matter researches. As one of main references, the basic principles and

	technologies of computer simulations and experimental methods adopted in soft matter research are also explained. Illustrations and tables are included in this book to improve the readability, and examples and exercises are added to help understanding. .

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Record Nr.	UNINA9910713378503321
Autore	Koszalka Edward J.
Titolo	Geohydrology of the northern part of the town of Brookhaven, Suffolk County, New York / / by Edward J. Koszalka
Pubbl/distr/stampa	Syosset, New York : , : U.S. Geological Survey, , 1984
Descrizione fisica	1 online resource (vi, 37 pages) : illustrations, maps + + 5 plates
Collana	Water-resources investigations report ; ; 83-4042
Soggetti	Hydrogeology - New York (State) - Brookhaven Hydrology New York (State) Brookhaven New York (State) Suffolk County
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Prepared in cooperation with the Suffolk County Department of Health Services and Suffolk County Water Authority."
Nota di bibliografia	Includes bibliographical references (pages 28-29).