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Titolo	Molecular reaction dynamics // Raphael Levine [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2005
ISBN	1-107-14046-3 1-282-39414-2 9786612394140 0-511-64365-9 0-511-19639-3 0-511-08081-6 0-511-56749-9 0-511-61412-8 0-511-08005-0
Descrizione fisica	1 online resource (xiv, 554 pages) : digital, PDF file(s)
Disciplina	541/.394
Soggetti	Molecular dynamics Chemical reaction, Conditions and laws of
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 500-541) and index.
Nota di contenuto	1. Understanding chemical reactions at the molecular level; 2. Molecular collisions; 3. Introduction to reactive molecular collisions; 4. Scattering as a probe of collision dynamics; 5. Introduction to polyatomic dynamics; 6. Structural considerations in the calculation of reaction rates; 7. Photoselective chemistry: access to the transition state region; 8. Chemistry in real time; 9. State-changing collisions: molecular energy transfer; 10. Stereodynamics; 11. Dynamics in the condensed phase; 12. Dynamics of gas-surface interactions and reactions; Bibliography; Index.
Sommario/riassunto	Molecular reaction dynamics is the study of chemical and physical transformations of matter at the molecular level. The understanding of how chemical reactions occur and how to control them is fundamental to chemists and interdisciplinary areas such as materials and nanoscience, rational drug design, environmental and astrochemistry.

This book provides a thorough foundation to this area. The first half is introductory, detailing experimental techniques for initiating and probing reaction dynamics and the essential insights that have been gained. The second part explores key areas including photoselective chemistry, stereochemistry, chemical reactions in real time and chemical reaction dynamics in solutions and interfaces. Typical of the new challenges are molecular machines, enzyme action and molecular control. With problem sets included, this book is suitable for advanced undergraduate and graduate students, as well as being supplementary to chemical kinetics, physical chemistry, biophysics and materials science courses, and as a primer for practising scientists.

2. Record Nr.	UNISA996466034403316
Titolo	Advances in Multimedia Modeling [[electronic resource]] : 17th International Multimedia Modeling Conference, MMM 2011, Taipei, Taiwan, January 5-7, 2011, Proceedings, Part II // edited by Kuo-Tien Lee, Wen-Hsiang Tsai, Hong-Yuan Mark Liao, Tshuan Chen, Jun-Wei Hsieh, Chien-Cheng Tseng
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2011
ISBN	3-642-17829-4
Edizione	[1st ed. 2011.]
Descrizione fisica	1 online resource (XXIII, 492 p. 281 illus.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 6524
Disciplina	006.7
Soggetti	Multimedia information systems Pattern recognition Application software Information storage and retrieval Database management Optical data processing Multimedia Information Systems Pattern Recognition Information Systems Applications (incl. Internet) Information Storage and Retrieval Database Management Image Processing and Computer Vision
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	<p>This two-volume proceedings constitutes the refereed papers of the 17th International Multimedia Modeling Conference, MMM 2011, held in Taipei, Taiwan, in January 2011. The 51 revised regular papers, 25 special session papers, 21 poster session papers, and 3 demo session papers, were carefully reviewed and selected from 450 submissions. The papers are organized in topical sections on audio, image video processing, coding and compression; media content browsing and retrieval; multi-camera, multi-view, and 3D systems; multimedia indexing and mining; multimedia content analysis; multimedia signal processing and communications; and multimedia applications. The special session papers deal with content analysis for human-centered multimedia applications; large scale rich media data management; multimedia understanding for consumer electronics; image object recognition and compression; and interactive image and video search.</p>