

1. Record Nr.	UNINA9910495191203321
Titolo	Complex Media and Percolation Theory // edited by Muhammad Sahimi, Allen G. Hunt
Pubbl/distr/stampa	New York, NY : , : Springer US : , : Imprint : Springer, , 2021
ISBN	1-0716-1457-6
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (448 pages)
Collana	Encyclopedia of Complexity and Systems Science Series, , 2629-2343
Disciplina	530.13
Soggetti	Mathematical physics Earth sciences Graph theory Physics Catalysis Condensed matter Theoretical, Mathematical and Computational Physics Earth Sciences Graph Theory Classical and Continuum Physics Phase Transitions and Multiphase Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Bootstrap Percolation -- Conduction and Diffusion in Percolating Systems -- Continuum Percolation -- Correlated Percolation -- Elastic Percolation Networks -- Invasion Percolation -- Networks, Flexibility and Mobility in -- Percolation in Complex Networks, and Faults and Fractures in Rock -- Percolation, Introduction to -- Lattices, Efficient Simulation of Large -- Percolation Phase Transition -- Percolation and Polymer Morphology and Rheology -- Percolation in Porous Media -- Percolation Thresholds, Exact -- Properties, Fractals, and the Renormalization Group Approach to Percolation.
Sommario/riassunto	Percolation theory describes the effects of the connectivity of microscopic or small-scale elements of a complex medium to its macroscopic or large-scale properties. It also describes the conditions

under which there may be a continuously connected path of local elements across the medium. The point at which the path is formed is called the percolation threshold. Percolation theory also predicts that many macroscopic properties of complex media follow universal power laws near the percolation threshold that are independent of many microscopic features of such media. There are many applications of percolation theory across the natural sciences, from porous materials, to composite solids, complex networks, and biological systems. This book presents the essential elements of percolation theory, covers the problem of calculating the exponents that characterize the power laws that the percolation quantities follow near the percolation threshold, provides a clear description of the geometry of percolation clusters of the connected paths, and addresses several variations of percolation theory. In particular, bootstrap percolation, explosive percolation, and invasion percolation are featured, which expand the range of natural systems to which percolation may be applicable. In addition, coverage includes several important applications of percolation theory to a range of phenomena, ranging from electrical conductivity, thermopower, the Hall effect, and photoconductivity of disordered semiconductors, to flow, transport and reaction in porous media, geochemistry, biology, and ecology.

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2. Record Nr.	UNINA9910956394903321
Autore	McKibbon Ann
Titolo	PDQ evidence-based principles and practice / / Ann McKibbon, Nancy Wilczynski; with Angela Eady and Susan Marks
Pubbl/distr/stampa	Shelton, CT, : People's Medical Pub. House, 2009
ISBN	1-282-27436-8 9786612274367 1-60795-085-5
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (213 pages)
Collana	PDQ
Altri autori (Persone)	WilczynskiNancy EadyAngela MarksSusan, BEd.
Disciplina	610
Soggetti	Evidence-based medicine - Information resources Systematic reviews (Medical research) - Information resources Database searching Information storage and retrieval systems - Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Title and Front matter""; ""Contents""; ""1. Introduction""; ""2. Therapy, Prevention and Control, and Quality Improvement""; ""3. Diagnosis and Screening""; ""4. Etiology, Causation, and Harm""; ""5. Natural History and Prognosis""; ""6. Clinical Prediction Guides""; ""7. Decision Analyses""; ""8. Differential Diagnosis and Disease Manifestation""; ""9. Qualitative Studies""; ""10. Secondary Publications: Systematic Review Articles""; ""11. Secondary Publications: Clinical Practice Guidelines""; ""12. Secondary Publications: Economic Analyses"" ""13. Secondary Publications: Health Technology Assessment"" Glossary""; ""Appendix""; ""Index""
Sommario/riassunto	Understanding the research process and retrieving the right research and clinical studies is essential for patient diagnosis, treatment, and care. This books helps the reader develop optimal, effective MEDLINE, CINAHL, PSYCINFO and EMBASE search strategie