1.	Record Nr.	UNINA9910779720103321
	Autore	Steinhauser M. O (Martin Oliver)
	Titolo	Computer simulation in physics and engineering [[electronic resource] /] / Martin Oliver Steinhauser
	Pubbl/distr/stampa	Berlin, : Walter de Gruyter GmbH & Co. KG, 2013
	ISBN	1-68015-205-X
		3-11-025606-1
	Descrizione fisica	1 online resource (532 p.)
	Classificazione	SK 955
	Disciplina	530.01/13
	Soggetti	Physics - Data processing
		Physics - Computer simulation
		Engineering - Data processing
		Engineering - Computer simulation
	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	Frontmatter -- Preface -- Contents -- List of Algorithms -- Chapter 1. Introduction to computer simulation -- Chapter 2. Scientific Computing in C -- Chapter 3. Fundamentals of statistical physics -- Chapter 4. Inter- and intramolecular potentials -- Chapter 5. Molecular Dynamics simulations -- Chapter 6. Monte Carlo simulations -- Chapter 7. Advanced topics, and applications in soft matter -- Appendix A. The software development life cycle -- Appendix B. Installation guide to Cygwin -- Appendix C. Introduction to the UNIX/Linux programming environment -- Appendix D. Sample program listings -- Appendix E. Reserved keywords in C -- Appendix F. Functions of the standard library <string.h> -- Appendix G. Elementary combinatorial problems -- Appendix H. Some useful constants -- Appendix I. Installing the GNU Scientific Library, GSL -- Appendix J. Standard header files of the ANSI-C library -- Appendix K. The central limit theorem -- Bibliography -- Glossary of Acronyms -- Index -- Authors
	Sommario/riassunto	This work is a needed reference for widely used techniques and methods of computer simulation in physics and other disciplines, such as materials science. Molecular dynamics computes a molecule's reactions and dynamics based on physical models; Monte Carlo uses

random numbers to image a system's behaviour when there are different possible outcomes with related probabilities. The work conveys both the theoretical foundations as well as applications and "tricks of the trade", that often are scattered across various papers. Thus it will meet a need and fill a gap for every scientist who needs computer simulations for his/her task at hand. In addition to being a reference, case studies and exercises for use as course reading are included.

2. Record Nr.	UNINA9910484801903321
Titolo	Requirements Engineering: Foundation for Software Quality : 22nd International Working Conference, REFSQ 2016, Gothenburg, Sweden, March 14-17, 2016, Proceedings / / edited by Maya Daneva, Oscar Pastor
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-30282-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XV, 319 p. 77 illus. in color.)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 9619
Disciplina	005
Soggetti	Software engineering Electronic data processing - Management Application software Computer science Information storage and retrieval systems Software Engineering IT Operations Computer and Information Systems Applications Computer Science Logic and Foundations of Programming Information Storage and Retrieval
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.
Nota di contenuto	Decision Making in Requirements Engineering -- Risk-Aware Multi-

Stakeholder Next Release Planning using Multi-Objective Optimization -- Goal-based Decision Making - Using Goal-oriented Problem Structuring and Evaluation Visualization for Multi Criteria Decision Analysis -- Optimizing the Incremental Delivery of Software Features under Uncertainty -- Open Source in Requirements Engineering -- Do Information Retrieval Algorithms for Automated Traceability Perform Effectively on Issue Tracking System Data -- How Firms Adapt and Interact in Open Source Ecosystems: Analyzing Stakeholder Influence and Collaboration Patterns -- Natural Language -- Evaluating the Interpretation of Natural Language Trace Queries -- Indicators for Open Issues in Business Process Models -- Compliance in Requirements Engineering -- Automated Classification of Legal Cross References Based on Semantic Intent -- Deriving Metrics for Estimating the Effort Needed in Requirements Compliance Work -- Requirements Engineering in theAutomotive Domain -- Detecting Requirements Defects during a Project Lifetime: an Analysis of a 5-year Automotive Project at Bosch -- Take Care of Your Modes! An Investigation of Defects in Automotive Requirements -- Empirical Studies in Requirements Engineering -- Gamified Requirements Engineering: Model and Experimentation -- Documenting Relations between Requirements and Design Decisions: A Case Study on Design Session Transcripts -- The Use and Effectiveness of User Stories in Practice -- Requirements Engineering Foundations -- Foundations for Transparency Requirements Engineering -- What is essential? - A Pilot Survey on Views about the Requirements Metamodel of reqT.org -- Human Factors in Requirements Engineering -- Peoples' Capabilities are a Blind Spot in RE Research and Practice -- Customer Involvement in Continuous Deployment: A Systematic Literature Review -- Research Methodology in Requirements Engineering -- Common Threats and Mitigation Strategies in Requirements Engineering Experiments with Student Participants -- Lean Development in Design Science Research: Deliberating Principles, Prospects and Pitfalls -- How do We Read Specifications? Experiences from an Eye Tracking Study.

| Sommario/riassunto | This book constitutes the proceedings of the 22nd International Working Conference on Requirements Engineering – Foundation for Software Quality, REFSQ 2016, held in Gothenburg, Sweden, in March 2016. The 16 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 64 submissions. The papers were organized in topical sections named: decision making in requirements engineering; open source in requirements engineering; natural language; compliance in requirements engineering; requirements engineering in the automotive domain; empirical studies in requirements engineering; requirements engineering foundations; human factors in requirements engineering; and research methodology in requirements engineering. . |