

1. Record Nr.	UNINA9910960861103321
Titolo	Impact of advances in computing and communications technologies on chemical science and technology : report of a workshop // Chemical Sciences Roundtable, Board on Chemical Sciences and Technology, Commission on Physical Sciences, Mathematics, and Applications, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, c1999
ISBN	0-309-18402-9 1-280-21033-8 9786610210336 0-309-59707-2 0-585-13601-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (235 p.)
Collana	The compass series
Disciplina	542/.85
Soggetti	Chemistry - Data processing Chemistry, Technical - Data processing Communication in chemistry - Technological innovations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Papers from a workshop held Nov. 1-2, 1998, in Washington, D.C.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Impact of Advances in Computing and Communications Technologies on Chemical Science and Technology -- Copyright -- Preface -- Acknowledgment of Reviewers -- Contents -- Summary -- WHITHER COMPUTING AND COMMUNICATIONS TECHNOLOGIES IN CHEMICAL SCIENCE AND TECHNOLOGY? -- COMPUTATIONAL MODELING AND SIMULATION IN CHEMICAL SCIENCE AND TECHNOLOGY -- REMOTE COLLABORATION AND INSTRUMENTS ONLINE -- CHEMICAL INFORMATION ONLINE -- 1 The Accelerated Strategic Computing Initiative -- ASCI'S NEED FOR ADVANCED SIMULATION CAPABILITY -- The Challenges -- Where Are We Now? -- Accelerating Technology Developments -- Simulation Development Environment -- THE CHALLENGES AHEAD -- Archival Storage Systems and Data Management -- Input/Output -- Networks -- Data Analysis and Visualization -- Scientific Simulation Software -- Computer Systems

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Sommario/riassunto

The Chemical Sciences Roundtable provides a forum for discussing chemically related issues affecting government, industry and government. The goal is to strengthen the chemical sciences by foster communication among all the important stakeholders. At a recent Roundtable meeting, information technology was identified as an issue of increasing importance to all sectors of the chemical enterprise. This book is the result of a workshop convened to explore this topic.
