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Titolo	International assessment of research and development in simulation-based engineering and science [[electronic resource] /] / editor, Sharon C. Glotzer
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Altri autori (Persone)	GlotzerSharon C
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	CONTENTS; FOREWORD; PREFACE; ABSTRACT; ADDENDUM; EXECUTIVE SUMMARY; 1 Background; 2 Major Trends in SBE&S Research and Development; 3 Threats to U.S. Leadership in SBE&S; 4 Opportunities for the United States to Gain or Reinforce Lead in SBE&S through Strategic Research and Investments; 5 Key Study Findings; 5.1 Thematic Area: Life Sciences and Medicine; 5.2 Thematic Area: Materials; 5.3 Thematic Area: Energy and Sustainability; 5.4 Crosscutting Issues: Next Generation Architectures and Algorithms; 5.5 Crosscutting Issues: Scientific and Engineering Simulation Software Development 5.6 Crosscutting Issues: Engineering Simulation5.7 Crosscutting Issues: Validation, Verification, and Uncertainty Quantification; 5.8 Crosscutting Issues: Multiscale Modeling and Simulation; 5.9 Crosscutting Issues: Big Data, Visualization, and Data-driven Simulation; 5.10 Crosscutting Issues: Education and Training; References; Further Reading; Chapter 1 INTRODUCTION; 1.1 Background and Scope; 1.2 Methodology; 1.3 Overview of the Report; References; Chapter 2 LIFE SCIENCES AND MEDICINE; 2.1 Introduction; 2.2 Molecular Dynamics; 2.3 Systems Biology; 2.3.1 Systems Biology Institute, Japan 2.3.2 Vrije University, The Netherlands2.3.3 Technical University of

Denmark; 2.3.4 U.S. Systems Biology Efforts; 2.4 Biophysical Modeling; 2.4.1 International Physiome Project; 2.4.2 EPFL Arterial Map; 2.4.3 EPFL Blue Brain Project; 2.4.4 U.S. Biophysical Modeling Efforts; 2.5 Summary of Key Findings; References; Chapter 3 MATERIALS SIMULATION; 3.1 Introduction; 3.2 Current State of the Art in Materials Simulation; 3.3 Materials Simulation Code Development; 3.4 Materials Simulation Highlights; 3.4.1 Mitsubishi Chemical; 3.4.2 Toyota Central R&D Labs, Inc. 3.4.3 Joint Laboratory of Polymer Science and Materials, Institute of Chemistry, Chinese Academy of Sciences 3.4.4 Materials Simulation Code Development in the UK; 3.4.5 Fraunhofer Institute for the Mechanics of Materials; 3.4.6 Energy Applications of Materials at Daresbury Laboratory; 3.5 Summary of Key Findings; References; Chapter 4 ENERGY AND SUSTAINABILITY; 4.1 Introduction; 4.2 SBE&S Research Activities in North America; 4.2.1 Analysis of Energy and CO2 Emission; 4.2.2 Modeling System Reliability of Electric Power Networks 4.2.3 Modeling Civil Infrastructure Systems Resilience and Sustainability 4.3 SBE&S Research Activities in Asia; 4.3.1 Modeling System Reliability of the Electric Power Network; 4.3.1.1 National Center for Research on Earthquake Engineering (NCREE), Taipei Taiwan; 4.3.1.2 Central Research Institute for Electric Power Industry (CRIEPI), Tokyo, Japan, and Chugoku Electric Power, Hiroshima, Japan; 4.3.2 Modeling Civil Infrastructure Systems Resilience and Sustainability; 4.3.2.1 Pusan Port Authority, Pusan, Korea 4.3.2.2 Disaster Control Research Center, School of Engineering, Tohoku University, Japan

Sommario/riassunto

Simulation-Based Engineering and Science (SBE&S) cuts across disciplines, showing tremendous promise in areas from storm prediction and climate modeling to understanding the brain and the behavior of numerous other complex systems. In this groundbreaking volume, nine distinguished leaders assess the latest research trends, as a result of 52 site visits in Europe and Asia and hundreds of hours of expert interviews, and discuss the implications of their findings for the US government. The authors conclude that while the US remains the quantitative leader in SBE&S research and development, it is very much in danger of losing that edge to Europe and Asia. WETC panel report commissioned by the National Science Foundation.

2. Record Nr.	UNISALENTO991001302479707536
Autore	Neri, Valerio
Titolo	La bellezza del corpo nella società tardoantica : rappresentazioni visive e valutazioni estetiche tra cultura classica e cristianesimo / Valerio Neri
Pubbl/distr/stampa	Bologna : Patron, 2004
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Collana	Studi di storia ; 10
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Titolo	EMILY Brontë : wuthering heights / edited by Patsy Stoneman
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ISBN	0-333-54595-8
Descrizione fisica	IX, 222 p. ; 22 cm
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