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| Nota di contenuto | Cover -- Front Matter -- Preface -- Contents -- SYSTEMS ENGINEERING -- Systems Engineering Challenges of the International Space Station -- Battlefield Management -- Software Development at Microsoft -- VISUAL SIMULATION AND ANALYSIS -- Physically Based Animation -- Data Mining and Visualization -- Digital Geometry Processing -- ENGINEERING CHALLENGES AND OPPORTUNITIES IN THE GENOMIC ERA -- The Human Genome Project: Elucidating Our Genetic Blueprint -- Current Genomic Research: The Proteins Have It -- Bioengineering for the Science and Technology of Biological Systems -- Genomics and Ethics -- NANOSCALE SCIENCE AND TECHNOLOGY -- From Clusters to Automobiles: Processing and Applications of Granular Nanomaterials -- Science and Technology of Nanotube-Based Materials -- Nanoscale Materials: Synthesis, Analysis, and Applications -- DINNER SPEECH -- Bits Versus Atoms-The Future of Information Technology -- APPENDICES -- Contributors. |
| Sommario/riassunto | In 1995 the National Academy of Engineering (NAE) initiated the Frontiers of Engineering Symposium program, which every year brings together 100 of the nation's future engineering leaders to learn about |

cutting-edge research and technical work in different engineering fields. On September 14-16, 2000, the National Academy of Engineering held its sixth Frontiers of Engineering Symposium at the Academies' Beckman Center in Irvine, California. Symposium speakers were asked to prepare extended summaries of their presentations, and it is those papers that are contained here. The intent of this book, and of the five that precede it in the series, is to describe the content and underpinning philosophy of this unique meeting and to highlight some of the exciting developments in engineering today.
