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Nota di contenuto	Front Matter -- Preface -- Contents -- INTRODUCTION -- Artificial Proteins: Bridging the Gap Between Natural and Synthetic Macromolecular Materials -- Biomedical Imaging Using Optical Coherence Tomography -- Confocal Reflectance Microscopy: Diagnosis of Skin Cancer Without Biopsy? -- Trends in Computational Materials Science for Materials Design and Processing -- Design, Synthesis, Development, and Integration into Manufacturing of New Polymer Materials Architectures for Advanced Integrated Circuit Fabrication -- Novel Sheet Steel Developments -- Role of Simulation in the Design of Next-Generation Engines for Military Aircraft -- Role of Simulation in Understanding Surface Roughness in Formed Aluminum Parts -- Machine Performance Assessment Methodology and Advanced Service Technologies -- A Brief History of Robotics -- Algorithms in Robotics: The Motion Planning Perspective -- Mechanics, Control, and Applications of Biomimetic Robotic Locomotion -- Robotic Perception for Autonomous Navigation of Mars Rovers -- Technology Innovation and American Leadership -- Contributors -- Program -- Participants -- Glossary.

