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""Excited-state Electron Transfer in Synthetic Systems""; ""Lessons for and from the Construction of Photodiodes""; ""Photovoltaic Cells""; ""Construction of Typical Solar Cells""; ""Use of Liquid Semiconductor Junctions""; ""Bibliography""; ""Recommended Reading""
 ""3 Dynamical Systems """"WHEN THE SIMPLE IS COMPLEX: NEW MATHEMATICAL APPROACHES TO LEARNING ABOUT THE UNIVERSE""; ""The Mathematics of Dynamical Systems""; ""Historical Insightsa€? Implications of Complexity""; ""Sensitivity to Initial Conditions""; ""Chaos, Determinism, and Information""; ""Instabilities and Real-world Systems""; ""Implications for Biology?""; ""The Role of Computers and Computer Graphics""; ""Bibliography""; ""4 Astrophysics ""; ""LOOKING FARTHER IN SPACE AND TIME""; ""Gravity's Shadow: the Hunt for Omega""; ""The Texture of the Universe""
 ""The Big Bang Picture of the Universe""""Basic Measurements in Space""; ""Redshift Provides the Third Dimension""; ""Quasar Studies Provide a Model""; ""Dark Matter Seen Through the Lens of Gravity""; ""Discovering the Blue ""Curtain""""; ""Gravity's Role as a Lens and a Cosmological Force""; ""The Formation of Stars""; ""Bibliography""; ""Recommended Reading""; ""5 Gene Regulation ""; ""GENE CONTROL: TRANSCRIPTION FACTORS AND MECHANISMS""; ""How DNA Works""; ""The Role of DNA""; ""Noncoding DNAa€?Subtlety, Punctuation, or Just Plain Junk?""; ""The Central Dogma of Biology""
 ""Transcription Factors""""Drawing Lessons from Simpler Organisms""; ""Exploring the Details of Binding Protein to DNA""; ""Using the Power of Genetics to Study Transcription""; ""Activationa€?Another Role of Transcription Factors""; ""The Transcription Factor in Development""; ""Is Cancer Gene-Encoded Growth Gone Awry?""; ""Life Itself""; ""Bibliography""; ""Recommended Reading""; ""6 Magnetic Resonance Imaging ""; ""NEW BREAKTHROUGHS IN MEDICAL DIAGNOSIS""; ""The Physics and Computation Behind MRI""; ""How MRI Generates Information""; ""T1 and T2 Relaxation Times as Data""
 ""T1 and T2 Time as a Diagnostic Lens""

Sommario/riassunto

Science at the Frontier takes you on a journey through the minds of the nation's leading younger scientists as they explore the most exciting areas of discovery today. The volume describes the movement to expand scientific theory and measurement, the relationship between science and government in the search for effective pollution control, the increasing use of computer modeling in science, the search for the secrets of gene transcription, current developments in magnetic resonance imaging, and more.
