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Altri autori (Persone)	BekensteinJacob D MechoulamRaphael
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Nota di contenuto	List of Contributors; Preface; Contents; What Can Pure Mathematics Offer to Society? W. Timothy Gowers; General Covariance and the Passive Equations of Physics Shlomo Sternberg; 1. What Do I Mean by 'Passive Equations'?; 2. The Sources of This Lecture; 3. What is the 'Fundamentally Simple Question' Posed by Einstein, Infeld and Hoffmann?; 4. Einstein's Comment on the First Principle; 5. What Is a Geodesic?; 6. Gauss's Lemma and the Problem of Absolute Space; 7. The Contributions of Gauss and Riemann; 8. Parallelism along Curves, Geodesics 9. Return to the 'Fundamentally Simple Question' of Einstein-Infeld-Hoffman10. Constraints Imposed by Symmetry; 10.1. The example of an equilateral triangle; 10.2. The concept of the orbit through a point; 10.3. General formulation of the constraint imposed by a symmetry group; 10.4. Example: Spheres as orbits; 10.5. The infinitesimal version of the constraint; 11. The Infinitesimal Constraint Condition as a Principle of Physics; 12. Some More Geometry; 13. The Technical Formulation for the Case of General Relativity; 14. The Hilbert Function 15. The Passive Equations and the Einstein-Infeld- Hoffman-Souriau

Solution to the 'Fundamentally Simple Question'16. The Schrodinger Equation; The Structure of Quarks and Leptons Haim Harari; Beautiful Theories Steven Weinberg; Harmless Energy from Nuclei Carlo Rubbia; 1. Energy Is Necessary; 2. The Greenhouse Issue; 3. Pros and Cons of Present-Day Nuclear Energy; 4. Toward a Renovated Scenario; 5. Comparing Magnetically Confined Fusion with Accelerator-Driven Fission; 6. Conclusions

Supramolecular Chemistry: From Molecular Information toward Self-Organization and Complex Matter Jean-Marie Lehn1. Introduction; 2. From Molecular to Supramolecular Chemistry; 3. The Molecular Information Paradigm; 4. Molecular Recognition, Catalysis and Transport; 5. Functional Molecular and Supramolecular Devices; 6. Self-organization by Design: Programmed Chemical Systems; 7. Self-Selection: The Instructed Mixture Paradigm; 8. Multicode Programmed Systems; 9. Self-Organization by Selection: Constitutional Dynamic Chemistry; 10. Functional Supramolecular Materials

11. Self-Organization in Supramolecular Nanoscience and Nanotechnology12. Conclusion: Perspectives; References; Chromatin and Transcription Roger Kornberg; References; Energy, Environment, and the Responsibility of Scientists Yuan T. Lee; 1. A Historical Perspective on the Development of Human Society on Earth; 2. The Dilemma of Living in a Half-Globalized World; 3. The 'Science and Technology in Society' Forum, Kyoto; 4. Science Should Tackle Urgent Problems; 5. Sharing of Scientific Knowledge and Technologies in a Globalized World; 6. Concluding Remarks

Res Ipsa Loquitur: History and Mimesis John E. Wansbrough

Sommario/riassunto

This volume consists of a selection of the Albert Einstein Memorial Lectures presented annually at the Israel Academy of Sciences and Humanities. Delivered by eminent scientists and scholars, including Nobel laureates, they cover a broad spectrum of subjects in physics, chemistry, life science, mathematics, historiography and social issues. This distinguished memorial lecture series was inaugurated by the Israel Academy of Sciences and Humanities following an international symposium held in Jerusalem in March 1979 to commemorate the centenary of Albert Einstein's birth. Considering that Einste

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Autore	Murray Susan <1967->
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Nota di contenuto	"And now: Color" : early color systems -- Natural vision versus "television" : defining and standardizing color -- Color adjustments : experiments, calibrations, and color training, 1950-1955 -- Colortown, USA : expansion, stabilization, and promotion, 1955-1959 -- The wonderful world of color : network programming and the spectacular real, 1960-1965 -- At the end of the rainbow : global expansion, the space race, and the Cold War.
Sommario/riassunto	First demonstrated in 1928, color television remained little more than a novelty for decades as the industry struggled with the considerable technical, regulatory, commercial, and cultural complications posed by the medium. Only fully adopted by all three networks in the 1960s, color television was imagined as a new way of seeing that was distinct from both monochrome television and other forms of color media. It also inspired compelling popular, scientific, and industry conversations about the use and meaning of color and its effects on emotions, vision, and desire. In Bright Signals Susan Murray traces these wide-ranging debates within and beyond the television industry, positioning the story of color television, which was replete with false starts, failure, and ingenuity, as central to the broader history of twentieth-century visual culture. In so doing, she shows how color television disrupted and

reframed the very idea of television while it simultaneously revealed the tensions about technology's relationship to consumerism, human sight, and the natural world.

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