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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-Hoffman 10. 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;  
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Supramolecular Chemistry: From Molecular Information toward Self-Organization and Complex Matter Jean-Marie Lehn  
1. 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 Nanotechnology  
12. 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

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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	Kostka Tomasz
Titolo	Optimising Nutrition to Alleviate Age-Associated Functional Decline
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Descrizione fisica	1 online resource (156 p.)
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Sommario/riassunto	Appropriate nutrition is a cornerstone of preventive gerontology. This Special Issue of Nutrients provides new insights on nutritional assessment and potential modifications of nutritional behaviours and supplements to prevent age-associated disorders and to increase life expectancy in different populations of older subjects. It includes five original articles and four systematic reviews. This Special Issue presents several aspects of the assessment of nutritional status and the prevention and treatment of nutritional deficiencies in different populations of older adults. Undoubtedly, future research will deepen our knowledge on this crucial public health issue.