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Nota di contenuto	Contents; Chapter 1 To My Readers; Chapter 2 The Origin of Physics; Chapter 3 Ancient Science of Mesopotamia, Egypt and China; Chapter 4 Physics of the Ancient Greek Era; Chapter 5 The Roots of the Scientific Revolution; Chapter 6 Mechanics, Planetary Motion and the Modern Science Revolution; Chapter 7 Poetry Influenced by the Scientific Revolution; Chapter 8 The Concept of the Atom, the Atomic Structure of Matter and the Origin of Chemistry; Chapter 9 The Concept of Energy; Chapter 10 Thermodynamics and the Atomic and Molecular Structure of Matter; Chapter 11 Electricity and Magnetism Chapter 12 Electromagnetic Radiation and Wave BehaviourChapter 13 Prelude to Relativity; Chapter 14 The Special Theory of Relativity; Chapter 15 The General Theory of Relativity; Chapter 16 Kuhn's Structure of Scientific Revolutions and the Impact of the Theory of Relativity; Chapter 17 The Structure of the Atom; Chapter 18 The Quantization of Energy; Chapter 19 Bohr's Atom; Chapter 20 Wave Mechanics; Chapter 21 Philosophical Implications of Quantum Mechanics; Chapter 22 Quantum Electrodynamics; Chapter 23 The Nucleus and the Strong Interaction Chapter 24 Elementary Particles, Quarks and Quantum ChromodynamicsChapter 25 Cosmology and the Universe: The Big Bang, Dark Matter and Dark Energy; Chapter 26 Clusters, Galaxies,

Black Holes and Stars; Chapter 27 The Solar System and the Planet Earth; Chapter 28 Non-Linear Systems, Chaos, Complexity and Emergence; Chapter 29 Classroom Discussions, Activities and Assignments; Bibliography

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**Sommario/riassunto**

This is a textbook for a survey course in physics taught without mathematics, that also takes into account the social impact and influences from the arts and society. It combines physics, literature, history and philosophy from the dawn of human life to the 21st century. It will also be of interest to the general reader.

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