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Nota di contenuto	Part I: Carbon Nanotubes (CNTS), Fundamentals Introducing Carbon Nanotubes (CNTS) Conduction Models and Electronic Structure of CNTS Synthesis, Purification and Chemical Modification of CNTS Physical, Mechanical and Thermal Properties of CNTS Toxicology of CNTS Part II: Carbon Nanotubes (CNTS), Applications Brief, General Overview of Applications CNT Applications in Specialized Materials CNT Applications in Batteries and Energy Devices CNT Applications in Sensors and Actuators CNT Applications in Drug and Biomolecule Delivery CNT Applications in Microelectronics, "Nanoelectronics" and "Nano-bioelectronics" CNT Applications in Displays and Transparent, Conductive Films/Substrates CNT Applications in Electrical Conductors, "Quantum Nanowires", Potential Superconductors CNT Applications in the Environment and in Materials Used in Separation Science Miscellaneous CNT Applications Part III: Graphene, Fundamentals Introducing Graphene

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	and Chemical Modification of Graphene Part IV: Graphene, Applications Brief, General Overview of Applications Graphene Applications in Sensors Graphene Applications in Batteries and Energy Devices Graphene Applications in Electronics, Electrical Conductors, and Related Uses Graphene Applications in Displays and Transparent, Conductive Films/Substrates Medical and Pharmaceutical Applications of Graphene Graphene Applications in Specialized Materials Miscellaneous Applications of Graphene Part V: Conducting Polymers, Fundamentals Introducting Conducting Polymers (CPS) Conduction Models and Electronic Structure of CPS Basic Electrochromics of CPS Basic Electrochemistry of CPS Syntheses and Processing of CPS Structural Aspects and Morphology of CPS Characterization Methods Classes of CPS: Part 1 Classes of CPS: Part 2 Part VI: Conducting Polymers, Applications Sensors Batteries and Energy Devices Electrochromics Displays, Including Light Emitting Diodes (LEDS) and Conductive Films Microwave- and Conductivity-based Technologies Electro-optic and Optical Devices Electrochemomechanical, Chemomechanical and
	Related Devices Miscellaneous Applications.
Sommario/riassunto	The second edition of this popular textbook thoroughly covers the practical basics and applications of conducting polymers. It also addresses materials that have gained prominence since the first edition of this book was published, namely carbon nanotubes and graphene. The features of this new edition include: New and updated chapters on novel concepts in conducting polymers Details on interdisciplinary applications of conducting polymers An in depth description of classes of conducting polymers.