Molecular Devices and Machines: Concepts and Perspectives for the Nanoworld, 2nd Edition
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DESCRIPTION
Targeted at a broad audience ranging from chemists and biochemists to physicists and engineers, this book covers advanced research while being written in an easily understandable language accessible to any interested researcher or graduate student.

Following an introduction to the general concepts, the authors go on to discuss devices for processing electrons and electronic energy, memories, logic gates and related systems, and, finally, molecular-scale machines.

ABOUT THE AUTHOR
Vincenzo Balzani, born in 1936, received his Laurea in 1960. Since 1973 he is full professor of chemistry in Bologna, Italy. He was visiting professor at the universities in Vancouver, Canada, Jerusalem, Israel, University of Strasbourg, France, University of Leuven, Belgium, and Bordeaux, France. His research interests are molecular-level devices and machines, nanotechnology, supramolecular chemistry, photochemistry, -physics, -catalysis, electron transfer reactions, luminescent sensors, and solar energy conversion. He is editor of several books, member of editorial boards of prestigious journals, amongst Chemistry - A European Journal, ChemPhysChem, Inorganic Chemistry, RSC Dalton Transactions, Chemical Society Reviews. He received several awards, e.g. Pacific West Coast Inorganic Lectureship, USA and Canada, 1985, Gold Medal "S. Cannizzaro", Italian Chemical Society, 1988, Franqui Chair, University of Leuven, Belgium, 1991, Wenner Gren Distinguished Lectureship, Sweden, 1993, Ziegler-Natta Lecturer, Gesellschaft Deutscher Chemiker, 1994, Italgas European Prize for Research and Innovation, 1994, Centenary Lecturer, The Royal Chemical Society (U.K.), Lee Lecture, University of Chicago, 1995-96, Blacet Lecture, University