DESCRIPTION

The miniaturization of bulky devices and machines is a process that confronts us on a daily basis. However, nanoscale machines with varied and novel characteristics may also result from the enlargement of extremely small building blocks, namely individual molecules. This bottom-up approach to nanotechnology is already being pursued in information technology, with many other branches about to follow.

- Written by a team of experienced authors headed by Vincenzo Balzani, one of the pioneers in the development of molecular machines
- Covers such diverse aspects as sensors, memory components, solar energy conversion, biomolecules as molecular machines, and much more
- Presented in a lucid style and didactically structured, with both the expert and the newcomer in mind
- Includes a glossary of terms and numerous references to the recent literature

Be among the first to explore the fascinating possibilities of this future-oriented technology! A must-have for every chemist and materials scientist with an interest in nanotechnology.
ABOUT THE AUTHOR

Vincenzo Balzani is Professor Emeritus at the University of Bologna where has been doing research and teaching in chemistry since 1973. He was visiting Professor in Canada, Israel, France and Belgium, headed various scientific committees and institutes and has held over 300 lectures worldwide. Alongside his membership of several editorial boards, Vincenzo Balzani has six books and more than 500 papers to his name. His research interests include photochemistry, photophysics, supramolecular chemistry, electron transfer reactions, molecular-level devices and machines, molecular nanotechnology, and photochemical solar energy conversion.

For additional product details, please visit https://www.wiley.com/en-us