



# **Integrated Chemical Systems: A Chemical Approach to Nanotechnology (Baker Lecture Series)**

*Allen J. Bard*

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The first book to present a systematic approach to nanosystems Fully supplemented with actual examples and scores of figures and photo illustrations, Integrated Chemical Systems takes the discussion of nanotechnology and nanosystems out of the realm of speculation and into the real world. This book presents a detailed discussion of various approaches to the fabrication and characterization of nanosystems and offers a firm theoretical basis for the operation of electrochemical and photoelectrochemical systems, making analogies between synthetic and naturally occurring nanosystems. The author uses examples taken from his own groundbreaking research and that of others to create a clear picture of the progress that has been made in this exciting new area of research. Having established the state of the art, he goes on to offer realistic projections of future systems and their applications. Topics discussed include:

- \* Currently available methods for the construction and characterization of nanosystems, including spectroscopic and nuclear magnetic resonance systems
- \* Modified electrodes and electrochemical methods for characterizing them
- \* Fabrication of semiconductor-based systems for photoelectrochemistry
- \* Suggestions and ideas for future research and projections of future systems and their applications

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