



# Advanced Physicochemical Treatment Processes (Handbook of Environmental Engineering)

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The past thirty years have witnessed a growing worldwide desire that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution—air, water, soil, and noise. Because pollution is a direct or indirect consequence of waste, the seemingly idealistic demand for “zero discharge” can be construed as an unrealistic demand for zero waste. However, as long as waste continues to exist, we can only attempt to abate the subsequent pollution by converting it to a less noxious form. Three major questions usually arise when a particular type of pollution has been identified: (1) How serious is the pollution? (2) Is the technology to abate it available? and (3) Do the costs of abatement justify the degree of abatement achieved? This book is one of the volumes of the Handbook of Environmental Engineering series. The principal intention of this series is to help readers formulate answers to the last two questions above. The traditional approach of applying tried-and-true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering, and has accounted in large measure for the establishment of a “methodology of pollution control.” However, the realization of the ever-increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken.

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### **Editorial Review**

From the Back Cover

Leading pollution control educators and practicing professionals describe how various combinations of different physicochemical treatment processes can be arranged to solve air, noise, and thermal pollution problems. In *Advanced Physicochemical Treatment Processes*, the authors discuss strategies for abating pollution by converting it into a less noxious form, using the most feasible technologies. Each chapter discusses in detail a variety of process combinations, along with technical and economic evaluations, and presents explanations of the principles behind the designs, as well as numerous variant designs useful to practicing engineers. The emphasis throughout is on developing the necessary engineering solutions from fundamental principles of chemistry, physics, and mathematics.

The authors also include up-to-date references, cost data, design methods, guidance on the installation and operation of various process equipment and systems, and Best Available Technologies (BAT) for water pollution control, wastewater treatment, and water purification.

### **Users Review**

**From reader reviews:**

**Shawn Farr:**

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**Samuel Jackson:**

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**Jimmy Stansberry:**

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