

UNIT OPERATIONS AND PROCESSES IN ENVIRONMENTAL ENGINEERING

Second Edition

REVISED BY
R. S. RAO

Unit Operations In Environmental Engineering

Tom D. Reynolds



Unit Operations In Environmental Engineering:

Unit Operations in Environmental Engineering Louis Theodore, R. Ryan Dupont, Kumar Ganesan, 2017-08-29 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich s 1961 classic work *Unit Operations in Sanitary Engineering* The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations the goal of this book is to present the subject from a strictly pragmatic introductory point of view particularly for those individuals involved with environmental engineering This book is concerned with unit operations fluid flow heat transfer and mass transfer Unit operations by definition are physical processes although there are some that include chemical and biological reactions The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operations equipment This is a definitive work on Unit Operations one of the most important subjects in environmental engineering today It is an excellent reference well written easily read and comprehensive I believe the book will serve well those working in engineering disciplines including those beyond just environmental and chemical engineering Bottom line A must for any technical library Kenneth J Skipka CCM *Unit Operations and Processes in Environmental Engineering* Tom D. Reynolds, 1982 **Unit Operations and Processes of Environmental Engineering** Tom D. Reynolds, 1977 *Unit Operations in Environmental Engineering* Robert Noyes, 1994-12-31 This book discusses the practical aspects of environmental technology organized into eight chapters relating to unit operations as follows 1 Biological Technology 2 Chemical Technology 3 Containment and Barrier Technology 4 Immobilization Technology 5 Membrane Technology 6 Physical Technology 7 Radiation and Electrical Technology 8 Thermal Destruction Technology Traditional technologies have been included as well as those that can be considered innovative and emerging The traditional approaches have been the most successful as contractors are careful about bidding on some of the newer technologies However as regulatory requirements increase markets will open for the innovative and emerging processes There will be increasing pressure to break down complex waste streams with each subsequent stream demanding separate treatment In addition a number of technologies have been developed by combining processes directly or in a treatment train and these developments are expected to assume increasing importance However such concerns as uncertainties due to liability regulatory approval price competition and client approval have limited the application of some of these newer technologies *Unit Operations in Environmental Engineering* Robert Noyes, 1994-12-31 This book discusses the practical aspects of environmental technology organized into eight chapters relating to unit operations as follows 1

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