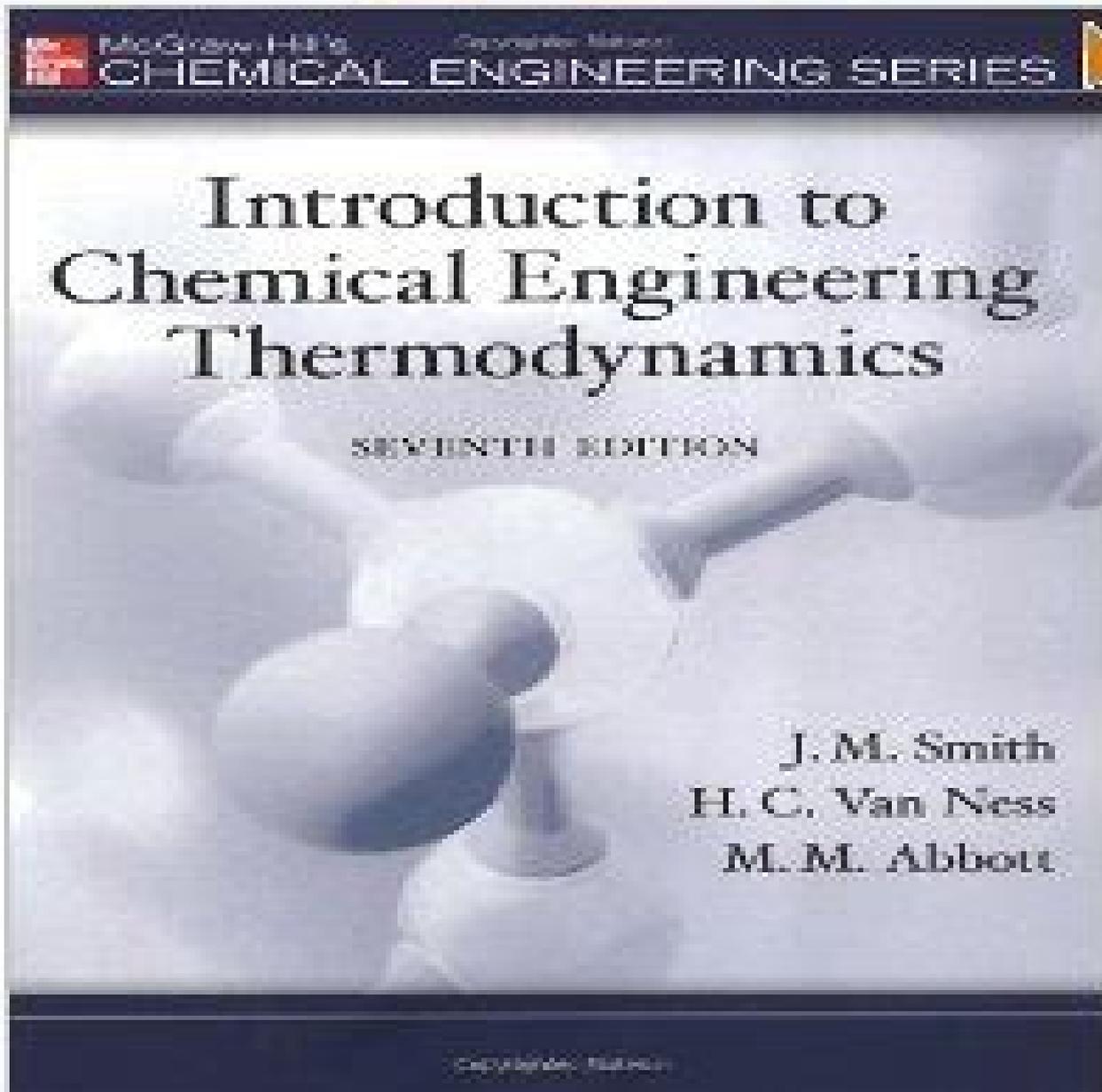


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Terry C. Jones



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Adsorption, Ion Exchange and Catalysis Stavros G. Pouloupoulos, Vassilis J. Inglezakis, 2006-08-23 Adsorption Ion Exchange and Catalysis is essentially a mixture of environmental science and chemical reactor engineering More specifically three important heterogeneous processes namely adsorption ion exchange and catalysis are analysed from fundamental kinetics to reactor design with emphasis on their environmental applications In Chapter 1 the subject of air and water pollution is dealt with Data about pollutants and emission sources are given and the treatment methods are shortly presented In Chapter 2 the very basics and historical development of adsorption ion exchange and catalysis are presented as well as their environmental applications Chapter 3 is devoted to heterogeneous processes and reactor analysis All types of reactors are described in depth and reactor modelling hydraulics and mass heat transfer phenomena are examined for each type of reactor Chapters 4 and 5 are dedicated to adsorption ion exchange and catalysis respectively The basic principles are presented including kinetics equilibrium mass heat transfer phenomena as well as the analytical solutions of the reactor models presented in Chapter 3 In the sixth chapter the subject of scale up is approached The two Annexes at the end of the book contain physical properties of substances of environmental interest as well as unit conversion tables Finally nearly all the examples contained are based on real experimental data found in literature with environmental interest Most of the examples consider all aspects of operation design kinetics hydraulics and mass transfer Provides basic knowledge of major environmental problems and connects them to chemical engineering

Introduction to Chemical Engineering Kinetics and Reactor Design Charles G. Hill, Thatcher W. Root, 2014-04-24 The Second Edition features new problems that engage readers in contemporary reactor design Highly praised by instructors students and chemical

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PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 4 THERMODYNAMICS (POD) Don W. Green, 2007-10-26 Now in its eighth edition Perry s Chemical Engineers Handbook offers unrivaled up to date coverage of all aspects of chemical engineering For the first time individual sections are available for purchase Now you can receive only the content you need for a fraction of the price of the entire volume Streamline your research pinpoint specialized information and save money by ordering single sections of this definitive chemical engineering reference today First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry s Chemical Engineers Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories

Petroleum Refining Design and Applications Handbook, Volume 1 A. Kayode Coker, 2018-09-05 There is a renaissance that is occurring in chemical and process

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The United States Catalog, 1925 **Van Nostrand's Chemical Annual**, 1918. The issues for 1907 and 1909 contain a Review of chemical literature *The Cumulative Book Index*, 1922 Chemical News and Journal of Industrial Science, 1905 Chemical Engineer, 1910 Contribution from the Department of Chemical Engineering Massachusetts Institute of Technology. Dept. of Chemical Engineering, 1925 *The Chemical Trade Journal and Chemical Engineer*, 1930 *The United States Catalog* Mary Burnham, Carol Hurd, 1928 **Chemical Engineering and Mining Review**, 1929

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