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Chemical Engineering Ray Sinnott, J.F. Richardson, J.M. Coulson, 2013-10-22 An introduction to the art and practice of design as applied to chemical processes and equipment It is intended primarily as a text for chemical engineering students undertaking the design projects that are set as part of undergraduate courses in chemical engineering in the UK and USA It has been written to complement the treatment of chemical engineering fundamentals given in Chemical Engineering volumes 1 2 and 3 Examples are given in each chapter to illustrate the design methods presented Coulson & Richardson's Chemical Engineering John Metcalfe Coulson, John Francis Richardson, 1996 Coulson and Richardson's classic series provides the student with an account of the fundamentals of chemical engineering and constitutes the definitive work on the subject for academics and practitioners Each book provides clear explanations of theory and thorough coverage of practical applications supported by numerous worked examples and problems Thus the text is designed for students as well as being comprehensive in coverage Volume 6 is an introduction to chemical engineering design This new edition has been fully revised and updated In addition the text has been reset and all diagrams redrawn resulting in a book which is clearer and easier to use than ever before This book will be valuable for not only undergraduate students but also to chemical engineers in industry and chemists and mechanical engineers who have to tackle problems arising in the process industry Chemical Industrial Separation Processes André B. de Haan, H. Burak Eral, Boelo Schuur, 2025-05-06 Separation Industry Digest processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry Knowledge of these processes is key for every student of chemical or process engineering and makes this book with its wealth of exercises and solutions ideally suited to university teaching The Third edition boasts an even greater number of applied examples and updated chapters on drying adsorption and membranes **Information Sources in Engineering** Roderick A. Macleod, Jim Corlett, 2012-04-17 The current thoroughly revised and updated edition of this approved title evaluates information sources in the field of technology It provides the reader not only with information of primary and secondary sources but also analyses the details of information from all the important technical fields including environmental technology biotechnology aviation and defence nanotechnology industrial design material science security and health care in the workplace as well as aspects of the fields of chemistry electro technology and mechanical engineering The sources of information presented also contain publications available in printed and electronic form such as books journals electronic magazines technical reports dissertations scientific reports articles from conferences meetings and symposiums patents and patent information technical standards products electronic full text services abstract and indexing services bibliographies reviews internet sources reference works and publications of professional associations Information Sources in Engineering is aimed at librarians and information scientists in technical fields as well as non professional information specialists who have to provide information about technical issues Furthermore this title is of great value to students and people with technical

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Fundamentals and Applications of Chemical Engineering Dr. Kirubanandan Shanmugam, 2025-09-25 It s with great happiness that I would like to acknowledge a great deal of people that get helped me extremely through the entire difficult challenging but a rewarding and interesting path towards some sort of Edited Book without having their help and support none of this work could have been possible Mass Transfer Operations-I D.C. Sikdar, 2022-11-11 Mass Transfer is the net movement of mass of a chemical species from the region of higher concentration to a region of lower concentration It occurs in many industrial and non industrial processes Mass transfer is used by different scientific communities for different processes and mechanisms Mass Transfer Operation is one of the core courses at the undergraduate level of Chemical Engineering curriculum The chapters are organized in a way that enables the students to acquire an in depth understanding of the subject The emphasis is given to the basic concepts of mass transfer operating molecular diffusion interphase mass transfer humidification operations drying evaporation crystallization adsorption novel separations and Mass transfer analogy all coming under the realm of mass transfer operations Apart from the numerous illustrations the book includes review questions exercises and aptitude test in chemical engineering which bridge the gap between theory and practical implementation All numerical problems are solved in a systematic manner to reinforce the understanding of the concepts This book demonstrates how to solve the industry related problems in chemical Engineering practice This book is primarily intended as a textbook for the undergraduate students of Chemical Engineering It will also be useful for other allied branches such as Mechanical Engineering Petroleum Engineering Polymer Science and Engineering Bio technology as well as Diploma in Chemical Engineering Process Design, Integration, and Intensification Mahmoud El-Halwagi, Dominic C. Y. Foo, 2019-05-27 With the growing emphasis on enhancing the sustainability and efficiency of industrial plants process integration and intensification are gaining additional interest throughout the chemical engineering community Some of the hallmarks of process integration and intensification include a holistic perspective in design and the enhancement of material and energy intensity The techniques are applicable for individual unit operations multiple units a whole industrial facility or even a cluster of industrial plants This book aims to cover recent advances in the development and application of process

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