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Mass and Energy Balances Seyed Ali Ashrafizadeh,Zhongchao Tan,2018-01-10 This textbook introduces students to mass and energy balances and focuses on basic principles for calculation design and optimization as they are applied in industrial processes and equipment While written primarily for undergraduate programs in chemical energy mechanical and environmental engineering the book can also be used as a reference by technical staff and design engineers interested who are in and or need to have basic knowledge of process engineering calculation Concepts and techniques presented in this volume are highly relevant within many industrial sectors including manufacturing oil gas green and sustainable energy and power plant design Drawing on 15 years of teaching experiences and with a clear understanding of students interests the authors have adopted a very accessible writing style that includes many examples and additional citations to research resources from the literature referenced at the ends of chapters

Energy Yaşar Demirel,2021-02-26 This revised and updated 3rd edition of the book allows readers to develop a practical understanding of the major aspects of energy It also includes two new chapters addressing renewable energy and energy management and economics The book begins by introducing basic definitions and then moves on to discuss the primary and secondary energy types internal energy and enthalpy and energy balance heat of reaction and heat transfer Each chapter features fully solved example problems and practice problems to support learning and the application of the topics discussed including energy production and conversion energy conservation energy storage energy coupling sustainability in energy systems renewable energy and energy management and economics Written for students across a range of engineering and science disciplines the book provides a comprehensive study guide It is particularly suitable for courses in energy technology sustainable energy technologies and energy conversion management and offers an ideal reference text for students engineers energy researchers and industry professionals A updated solutions manual to this textbook s problems is available to course instructors on request from the author and online on www.springer.com

Mass Balances for Chemical Engineers Gumersindo Feijoo,Juan Manuel Lema,Maria Teresa Moreira,2020-07-20 The fundamentals of mass balances relevant for chemical engineers summarized in an easy comprehensible manner Plenty of example calculations schemes and flow

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Fundamentals of Environmental Engineering Danny Reible, 2025-07-31 Numerous new technologies and approaches have been developed since the first publication of Fundamentals of Environmental Engineering This newly revised and updated edition continues to have a focus on fundamental concepts and on mass and energy material balances but it eliminates some of the least used concepts and allows space for new and more common aspects of environmental engineering practice Expanding its use at the junior level the author explains current environmental engineering issues including emerging contaminants and management of air water soil and sediment pollution Features Provides up to date information on a variety of emerging contaminants and new technologies for air and water pollution Discusses some of the more common aspects of environmental engineering practice and eliminates some of the least used and difficult concepts Explains the mathematics of mass and energy balances to guide environmental assessment in a way that doesn't follow traditional civil engineering oriented introductory textbooks Updated coverage for a one semester course with new problems that emphasize practical field orientated applications for environmental engineers Undergraduate students in environmental civil energy industrial and chemical engineering will find that this textbook is an excellent overview of the fundamentals that environmental engineers should understand Professionals involved with the environment such as regulators researchers academics and practitioners concerned with the protection and management of the environment will also find this textbook to be an invaluable resource

Rules of Thumb for Petroleum Engineers James G. Speight, 2017-02-28 The most comprehensive and thorough reference work available for petroleum engineers of all levels Finally there is a one stop reference book for the petroleum engineer which offers practical easy to understand responses to complicated technical questions This is a must have for any engineer or non engineer working in the

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for steam pricing and selection of processes for improved heat integration Examples are provided to illustrate the discussed models and methods to give sufficient learning experience for the reader

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Digital Twins Christoph Herwig, Ralf Pörtner, Johannes Möller, 2021-04-25 This is the first of two volumes that together provide an overview of the latest advances in the generation and application of digital twins in bioprocess design and optimization Both processes have undergone significant changes over the past few decades moving from data driven approaches into the 21st century digitalization of the bioprocess industry Moreover the high demand for biotechnological products calls for efficient methods during research and development as well as during tech transfer and routine manufacturing In this regard one promising tool is the use of digital twins which offer a virtual representation of the bioprocess They reflect the mechanistics of the biological system and the interactions between process parameters key performance indicators and product quality attributes in the form of a mathematical process model Furthermore digital twins allow us to use computer aided methods to gain an improved process understanding to test and plan novel bioprocesses and to efficiently monitor them This book explains the mathematical structure of digital twins their development and the model s respective parts as well as concepts for the knowledge driven generation and structural variability of digital twins Covering fundamentals as well as applications the two volumes offer the ideal introduction to the topic for researchers in academy and industry alike

Process Plant Layout Sean Moran, 2016-11-16 *Process Plant Layout Second Edition* explains the methodologies used by professional designers to layout process equipment and pipework plots plants sites and their corresponding environmental features in a safe economical way It is supported with tables of separation distances rules of thumb and codes of practice and standards The book includes more than seventy five case studies on what can go wrong when layout is not properly considered Sean Moran has thoroughly rewritten and re illustrated this book to reflect advances in technology and best practices for example changes in how designers balance layout density with cost operability and safety considerations The content covers the why underlying process design company guidelines providing a firm foundation for career growth for process design engineers It is ideal for process plant designers in contracting consultancy and for operating companies at all stages of their careers and is also of importance for operations

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