

Process Equipment Design

4.1 INTRODUCTION

People operate and maintain processes by interacting with process equipment. Process equipment includes displays, alarms, controls, computers, manual equipment, and personal protective equipment. Human factors issues for process equipment relate to how people interact with and use equipment. The characteristics of the equipment may increase the likelihood of human failures when it is used by people. These human factors issues are addressed by studying the match between the attributes of people and those of the equipment. Optimizing this match helps improve process safety.

Key attributes of people include:

- Physical capabilities such as strength, vision, hearing, and size.
- Intellectual capabilities such as understanding of the process, diagnosing problems, attention span, and speed of thought.
- Skills such as use of tools and reading level; knowledge such as that of process hazards and abnormal operations.
- Behavior such as responsibility and motivation.
- Education and training.
- Communication skills.

Key attributes of equipment include location, accessibility, size, shape, color, orientation, and so on. Process equipment designs should consider capabilities of people such as physical (e.g. strength), psychological (e.g. speed of processing information) and social (e.g. communication abilities).

The diversity of equipment used in processes, their characteristics, and those of people, result in a wide variety of human factors design issues. These are generally well-known. The challenge is to apply the existing knowledge and account for synergistic effects resulting from people and equipment functioning as parts of complex systems.

Fundamental human factors design principles can be defined for equipment and include:

- *Suitability*—meets requirements for the task.
- *Simplicity*—avoids unnecessary complexity.

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Lloyd E. Brownell



Process Equipment Design II Wordpress:

Heat Exchangers Kuppan Thulukkanam, 2024-02-29 Heat Exchangers Classification Selection and Thermal Design Third Edition discusses heat exchangers and their various applications such as refrigeration air conditioning automobiles gas turbines process industries refineries and thermal power plants With a focus on thermal design methods including rating and sizing the book covers thermohydraulic fundamentals and thermal effectiveness charts for various flow configurations and shell and tube heat exchangers It provides construction details geometrical features and correlations and thermo hydraulic details for tube fin plate fin air cooled shell and tube microchannel and plate heat exchangers and thermal design methods like rating and sizing The book explores additive manufacturing of heat exchangers printed circuit heat exchangers and heat transfer augmentation methods The book also describes recuperators and regenerators of gas turbine cycles waste heat recovery devices and phase change phenomena including boiling condensation and steam generation The book serves as a useful reference for researchers graduate students and engineers in the field of heat exchanger design including heat exchanger manufacturers

Analysis, Synthesis, and Design of Chemical Processes Richard Turton, Joseph A. Shaeiwitz, Debangsu Bhattacharyya, Wallace B. Whiting, 2018-06-15 The Leading Integrated Chemical Process Design Guide With Extensive Coverage of Equipment Design and Other Key Topics More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Fifth Edition presents design as a creative process that integrates the big picture and small details and knows which to stress when and why Realistic from start to finish it moves readers beyond classroom exercises into open ended real world problem solving The authors introduce up to date integrated techniques ranging from finance to operations and new plant design to existing process optimization The fifth edition includes updated safety and ethics resources and economic factors indices as well as an extensive new section focused on process equipment design and performance covering equipment design for common unit operations such as fluid flow heat transfer separations reactors and more Conceptualization and analysis process diagrams configurations batch processing product design and analyzing existing processes Economic analysis estimating fixed capital investment and manufacturing costs measuring process profitability and more Synthesis and optimization process simulation thermodynamic models separation operations heat integration steady state and dynamic process simulators and process regulation Chemical equipment design and performance a full section of expanded and revamped coverage of designing process equipment and evaluating the performance of current equipment Advanced steady state simulation goals models solution strategies and sensitivity and optimization results Dynamic simulation goals development solution methods algorithms and solvers Societal impacts ethics professionalism health safety environmental issues and green engineering Interpersonal and communication skills working in teams communicating effectively and writing better reports This text draws on a combined 55 years of innovative instruction at West Virginia University WVU and the University of Nevada Reno It includes suggested curricula for

one and two semester design courses case studies projects equipment cost data and extensive preliminary design information for jump starting more detailed analyses

Waste Biorefinery Thallada Bhaskar, Ashok Pandey, Eldon R. Rene, Daniel C.W. Tsang, 2020-03-13 Waste Biorefinery Integrating Biorefineries for Waste Valorisation provides the various options available for several renewable waste streams The book includes scientific and technical information pertaining to the most advanced and innovative processing technologies used for the conversion of biogenic waste to biofuels energy products and biochemicals In addition the book reports on recent developments and new achievements in the field of biochemical and thermo chemical methods and the necessities and potential generated by different kinds of biomass in presumably more decentralized biorefineries The book presents an assortment of case studies from developing and developed countries pertaining to the use of sustainable technologies for energy recovery from different waste matrices Advantages and limitations of different technologies are also discussed by considering the local energy demands government policies environmental impacts and education in bioenergy Provides information on the most advanced and innovative processes for biomass conversion Covers information on biochemical and thermo chemical processes and products development on the principles of biorefinery Includes information on the integration of processes and technologies for the production of biofuels energy products and biochemicals Demonstrates the application of various processes with proven case studies

Digitizing Industry Knowledge for Software Development Manoj Kumar Lal, Food Processing Technology P.J. Fellows, 2016-10-04 Food Processing Technology Principles and Practice Fourth Edition has been updated and extended to include the many developments that have taken place since the third edition was published The new edition includes an overview of the component subjects in food science and technology processing stages important aspects of food industry management not otherwise considered e.g financial management marketing food laws and food industry regulation value chains the global food industry and over arching considerations e.g environmental issues and sustainability In addition there are new chapters on industrial cooking heat removal storage and distribution along with updates on all the remaining chapters This updated edition consolidates the position of this foundational book as the best single volume introduction to food manufacturing technologies available remaining as the most adopted standard text for many food science and technology courses Updated edition completely revised with new developments on all the processing stages and aspects of food industry management not otherwise considered e.g financial management marketing food laws and food industry regulation and more Introduces a range of processing techniques that are used in food manufacturing Explains the key principles of each process including the equipment used and the effects of processing on micro organisms that contaminate foods Describes post processing operations including packaging and distribution logistics Includes extra textbook elements such as videos and calculations slides in addition to summaries of key points in each chapter

Measurement and Safety Béla G. Lipták, Kriszta Venczel, 2016-11-25 This handbook is dedicated to the next generation of automation engineers

working in the fields of measurement control and safety describing the sensors and detectors used in the measurement of process variables *PHilMech*, 2010 *Yearbook of International Organizations 2014-2015 (Volume 3)* Union Of International Associations, Union of International Associations, 2014-08-20 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 **Symposium Issue**, 2009 World's Press News and Advertisers' Review, 1951-02 Process Equipment and Plant Design Subhabrata Ray, Gargi Das, 2020-05-29 *Process Equipment and Plant Design Principles and Practices* takes a holistic approach towards process design in the chemical engineering industry dealing with the design of individual process equipment and its configuration as a complete functional system Chapters cover typical heat and mass transfer systems and equipment included in a chemical engineering curriculum such as heat exchangers heat exchanger networks evaporators distillation absorption adsorption reactors and more The authors expand on additional topics such as industrial cooling systems extraction and topics on process utilities piping and hydraulics including instrumentation and safety basics that supplement the equipment design procedure and help to arrive at a complete plant design The chapters are arranged in sections pertaining to heat and mass transfer processes reacting systems plant hydraulics and process vessels plant auxiliaries and engineered safety as well as a separate chapter showcasing examples of process design in complete plants This comprehensive reference bridges the gap between industry and academia while exploring best practices in design including relevant theories in process design making this a valuable primer for fresh graduates and professionals working on design projects in the industry Serves as a consolidated resource for process and plant design including process utilities and engineered safety Bridges the gap between industry and academia by including practices in design and summarizing relevant theories Presents design solutions as a complete functional system and not merely the design of major equipment Provides design procedures as pseudo code flow chart along with practical considerations **Process Equipment Design Vol. 2 5/ed.** Dawande Dr. S.D., Contents 1 Shell and Tube Heat Exchanger 2 Heat Exchange Equipment 3 Separation Process Equipments 4 Dryers 5 Reactors 6 Economic Evaluation 7 Chemical Plant Location and Layout Tables Exercise for Drawing Index **Foundation Grants to Individuals**, 2007 Cumulative Author Index to Psychological Abstracts, 1975 Process Equipment Design M. V. Joshi, 1979 *Process Equipment Design* Lloyd E. Brownell, 1959 *Optimal Design of Process Equipment* Krzysztof Urbaniec, 1986 Process Equipment Design Herman C. Hesse, John Henry Rushton, 1945 *Process Equipment Design (3 Edition)* M. V. Joshi, V. V. Mahajani, 2000-01-01

This book covers the various aspects of designing and constructing equipment used in diverse processes in chemical industries. Sketches and drawings provide details of process equipments with charts and special diagrams. The book is ideal for chemical engineering students and professional design engineers. **Fundamentals of Process Equipment Design** N. I. Taganov, K. A. Naik, 1968

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