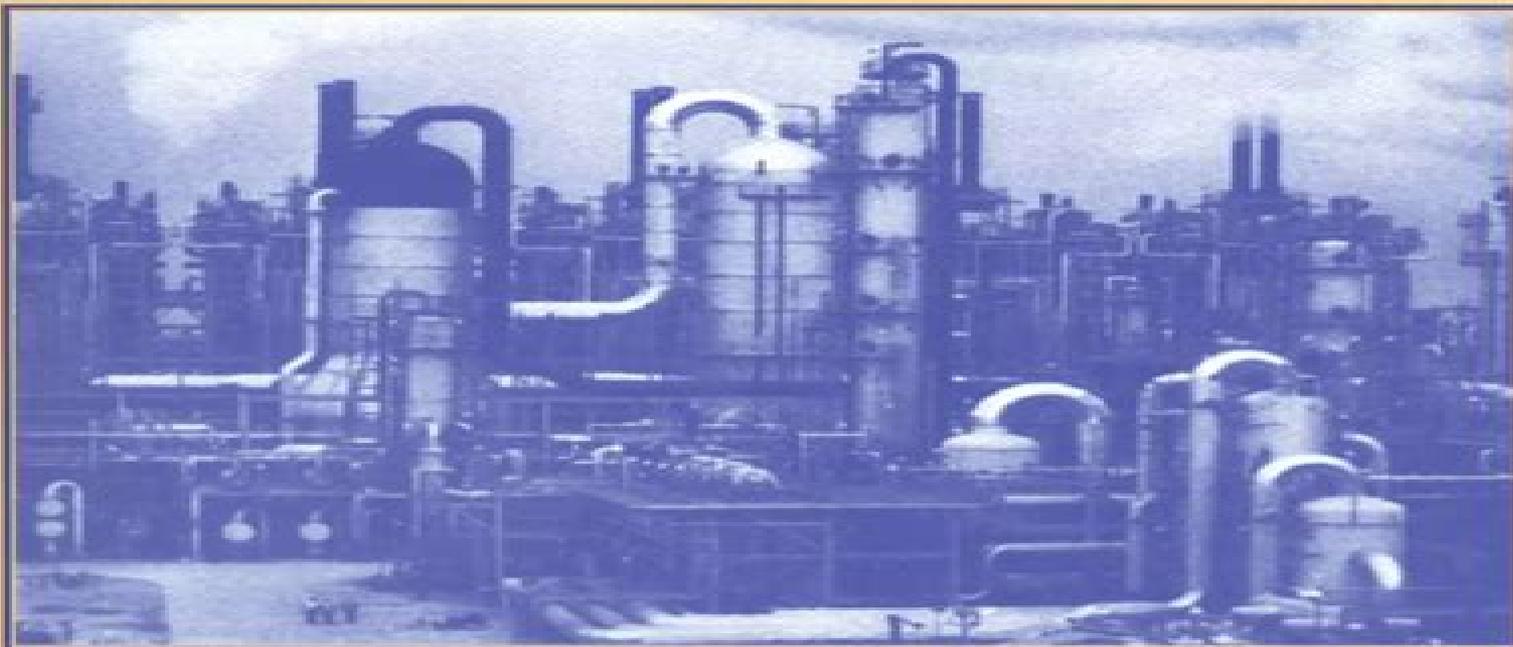


APPLIED PROCESS DESIGN

FOR CHEMICAL AND PETROCHEMICAL PLANTS

Volume 3, Third Edition

Contains process design and equipment details for heat transfer, refrigeration systems, compression equipment, and mechanical drivers



Ernest E. Ludwig

Applied Process Design

R Bogdan



Applied Process Design:

Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2007-02-08 This complete revision of Applied Process Design for Chemical and Petrochemical Plants Volume 1 builds upon Ernest E Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals. This new edition includes important supplemental mechanical and related data nomographs and charts. Also included within are improved techniques and fundamental methodologies to guide the engineer in designing process equipment and applying chemical processes to properly detailed equipment. All three volumes of Applied Process Design for Chemical and Petrochemical Plants serve the practicing engineer by providing organized design procedures, details on the equipment suitable for application, selection and charts in readily usable form. Process engineers, designers and operators will find more chemical/petrochemical plant design data in Volume 2, Third Edition, which covers distillation and packed towers, as well as material on azeotropes and ideal/non-ideal systems. Volume 3, Third Edition, which covers heat transfer, refrigeration systems, compression, surge drums and mechanical drivers. A. Kayode Coker is Chairman of Chemical Process Engineering Technology department at Jubail Industrial College in Saudi Arabia. He is both a chartered scientist and a chartered chemical engineer for more than 15 years and an author of Fortran Programs for Chemical Process Design Analysis and Simulation, Gulf Publishing Co and Modeling of Chemical Kinetics and Reactor Design, Butterworth-Heinemann. Provides improved design manuals for methods and proven fundamentals of process design with related data and charts. Covers a complete range of basic day-to-day petrochemical operation topics with new material on significant industry changes since 1995. **Applied Process Design for Chemical and Petrochemical Plants: Volume 1** Ernest E. Ludwig, 1995-02-23 This expanded edition introduces new design methods and is packed with examples, design charts, tables and performance diagrams to add to the practical understanding of how selected equipment can be expected to perform in the process situation. A major addition is the comprehensive chapter on process safety design considerations ranging from new devices and components to updated venting requirements for low pressure storage tanks to the latest NFPA methods for sizing rupture disks and bursting panels and more. Completely revised and updated throughout. The definitive guide for process engineers and designers. Covers a complete range of basic day-to-day operation topics. Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2010-07-19 The Fourth Edition of Applied Process Design for Chemical and Petrochemical Plants Volume 2 builds upon the late Ernest E Ludwig's classic chemical engineering process design manual. Volume Two focuses on distillation and packed towers and presents the methods and fundamentals of plant design along with supplemental mechanical and related data, nomographs, data charts and heuristics. The Fourth Edition is significantly expanded and updated with new topics that ensure readers can analyze problems and find practical design methods and solutions to accomplish their process design objectives. A true application-driven book providing clarity and easy access to essential

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completely revised and updated throughout to make this standard reference more valuable than ever It has been expanded by more than 200 pages to include the latest technological and process developments in heat transfer refrigeration compression and compression surge drums and mechanical drivers Like other volumes in this classic series this one emphasizes how to apply techniques of process design and how to interpret results into mechanical equipment details It focuses on the applied aspects of chemical engineering design to aid the design and or project engineers in rating process requirements specifying for purchasing purposes and interpreting and selecting the mechanical equipment needed to satisfy the process functions Process chemical engineering and mechanical hydraulics are included in the design procedures Includes updated information that allows for efficiency and accuracy in daily tasks and operations Part of a classic series in the industry

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packed towers It incorporates recent advances and major innovations in distillation contacting devices and features new generations of packing In addition this new edition reflects the significant progress that has been made in process design techniques in recent years Volume 2 s example calculation techniques guide in the preparation of preliminary and final rating designs In some instances the book includes manufacturers procedures and notes clearly indicate when manufacturers should verify results Covers distillation and packed towers and contains material on azeotropes and ideal and non ideal systems Includes important findings from recent literature to illustrate alternate design methods New illustrations and rating charts

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incidents which are well illustrated from US Chemical Safety Hazard Investigation Board www.csb.gov Finally this book contains a glossary of Petroleum and Petrochemical Terminologies and Physical and Chemical Characteristics of Major Hydrocarbons Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers complete range of basic day to day petrochemical operation topics Extensively revised with new material added on three phase separation metallurgy and corrosion Process safety management HAZOP and hazard analyses and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 30 process data sheets in excel format

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