



Ludwig's Applied Process Design for Chemical and Petrochemical Plants, Fourth Edition

By A. Kayode Coker

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The fourth edition of *Ludwig's Applied Process Design for Chemical and Petrochemical Plants, Volume Three* is a core reference for chemical, plant, and process engineers and provides an unrivalled reference on methods, process fundamentals, and supporting design data. New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers, double pipe heat exchangers and air coolers. Heat tracer requirements for pipelines and heat loss from insulated pipelines are covered in this new edition, along with batch heating and cooling of process fluids, process integration, and industrial reactors. The book also looks at the troubleshooting of process equipment and corrosion and metallurgy.

- Assists engineers in rapidly analyzing problems and finding effective design methods and mechanical specifications
- Definitive guide to the selection and design of various equipment types, including heat exchanger sizing and compressor sizing, with established design codes
- Batch heating and cooling of process fluids supported by Excel programs

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Editorial Review

Review

"...updated with new methods and contain a wealth of useful data...an excellent job of bringing this book up to date and ensuring that it continues to treat the subject from the perspective of industrial practice...a worthwhile addition to the library of any engineer engaged in process design or plant operations."

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"...a true application-driven book. It provides clarity and easy access to essential process plant data and design information...covers a complete range of basic day to day chemical operation main elements."--**tce**

"Ludwig's Applied Process Design for Chemical and Petrochemical Plants, Volume 3, Fourth Edition is a true application-driven book. It provides clarity and easy access to essential process plant data and design information. It actually covers a complete range of basis day to day chemical operation main elements. The biggest part of the book focuses on heat transfer and energy process integration. Practical elements of refrigeration, compressions and mechanical drivers are also presented. Furthermore, it contains an important and interesting chapter on both industrial and laboratory hazards. There is also a short metallurgy and corrosion chapter. The methods and fundamentals of plant design are complemented with supplemental mechanical and related data, charts and heuristics. This fourth edition is significantly expanded and updated, with new topics that ensure readers can analyze problems and find practical design methods and solution to accomplish their process design tasks. The very large overview means that this reference manual can be well-used by both academics and those in industry. This manual is a guide for the engineer in applying chemical processes. This book does not develop or derive theoretical equations; instead, it provides direct application of sound theory to applied equations useful in the immediate design effort. Most of the recommended equations have been used in actual plant equipment design and can be handled by the inexperienced and the experienced engineer. The book can also be used as a classroom text for chemical plant design courses in universities." **tce**

"This book represents a considerable amount of present-day engineering data and design information that should not only be of extraordinary value to the process chemical engineer looking for excellent information on Unit Operations equipment but also serves as a detailed source of help for process design and equipment specifications." --**Art Montemayor, Spring, Texas**

About the Author

A. Kayode Coker, Ph.D., is an engineering Coordinator at Saudi Aramco Shell Refinery Company, in Jubail, Saudi Arabia and is a consultant for AKC Technology in the UK. Prior to this he was Chairman of the Chemical and Process Engineering Department at Jubail Industrial College. He has also been a chartered scientist and a chartered chemical engineer for over 30 years. Coker is a Fellow of the Institution of Chemical Engineers, UK, (C.Eng, CSci, FICHE) and a senior member of the American Institute of Chemical Engineers (AIChE). He holds a B.Sc. honors degree in Chemical Engineering, a Master of Science degree in Process Analysis and Development, and a Ph.D. in Chemical Engineering, all from Aston

University, Birmingham, UK. He also has a Teachers' Certificate in Education from the University of London, UK. He has directed and conducted short courses in both the UK and for SABIC industries in Saudi Arabia. His articles have been published in several international journals, he is an author of four books in chemical engineering and a contributor to the Encyclopaedia of Chemical Processing and Design, Vol. 61. Coker was named as one of the International Biographical Centre's Leading Engineers of the World 2008.

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