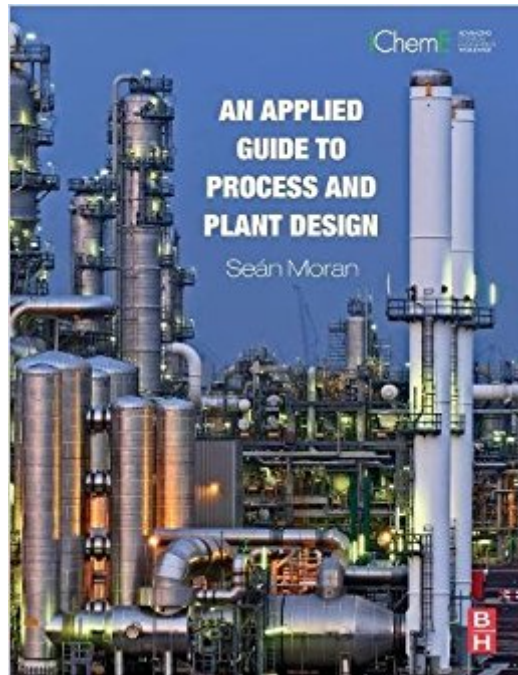




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An Applied Guide To Process And Plant Design



Synopsis

An Applied Guide to Process and Plant Design is a guide to process plant design for both students and professional engineers. The book covers plant layout and the use of spreadsheet programmes and key drawings produced by professional engineers as aids to design; subjects which are usually learned on the job rather than in education. You will learn how to produce smarter plant design through the use of computer tools, including Excel and AutoCAD, "What If Analysis", statistical tools, and Visual Basic for more complex problems. The book also includes a wealth of selection tables, covering the key aspects of professional plant design which engineering students and early-career engineers tend to find most challenging. Professor Moran draws on over 20 years' experience in process design to create an essential foundational book ideal for those who are new to process design, compliant with both professional practice and the IChemE degree accreditation guidelines. Explains how to deliver a process design that meets both business and safety criteria. Covers plant layout and the use of spreadsheet programmes and key drawings as aids to design. Includes a comprehensive set of selection tables, covering those aspects of professional plant design which early-career designers find most challenging.

Book Information

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Customer Reviews

"invaluable for students and recent graduates, or their tutors or mentors...this text could become an established classic, to be continually revised in the manner of Perry's Handbook. Rating: 4.5 Stars"-- The Chemical Engineer Magazine

The approaches taught in university as "Process Design" have very little to do with how professional engineers actually design process plants. The understanding in universities of the nature and basis of engineering is fundamentally flawed. Most academics think that engineering is just applied science and mathematics. An Applied Guide to Process and Plant Design addresses the shortcomings of chemical engineering education in this area, allowing current students and recent graduates to understand what process plant design is really about. It is the book which I wish I had been able to buy when I was learning to be a process engineer.

This is a MUST READ for every undergraduate, postgraduate and every lecturer in the chemical and process engineering profession. This book is very detailed and easy to understand. The AUTHOR Sean Moran has written a well structured procedure and thorough guideline on how to design a process plant. Rarely do you see such books explaining the concept of chemical engineering in the bookshops anymore. This book is one of the best books ever written in such a long time in the history of engineering design. I call it a COME BACK TO THE BASIS of process and plant design. I recommend this book to every process engineer, plant engineer, cost analyst, project managers, commission engineer etc who wants to expand their know-how and hands on practical knowledge in design.

As a Chemical Engineering Undergraduate, this book is a no nonsense guide to how the intelligent design process is carried out across Process Engineering.

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