



# An Applied Guide to Process and Plant Design

By Sean Moran

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**An Applied Guide to Process and Plant Design** By Sean Moran

*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

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## An Applied Guide to Process and Plant Design By Sean Moran Bibliography

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## **Editorial Review**

### **Review**

"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***

### **From the Author**

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.

### **About the Author**

Professor Moran is a Chartered Chemical Engineer with twenty-five years' experience in process design, commissioning and troubleshooting. He started his career with international process engineering contractors and worked worldwide on water treatment projects before setting up his own consultancy in 1996, specializing in process and hydraulic design, commissioning and troubleshooting of industrial effluent and water treatment plants. Sean was until 2015 an Associate Professor at the University of Nottingham, where he coordinated the design teaching program for chemical engineering students. He has now returned to engineering practice, specializing in forensic engineering in commercial disputes centering on plant design issues.

## **Users Review**

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#### **Roy Brown:**

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