



Fundamentals and Linear Algebra for the Chemical Engineer

By Guido Buzzi-Ferraris, Flavio Manenti

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A practical engineer's companion to using numerical methods for the solution of complex mathematical problems. It thus enables readers to use and implement standard numerical tools in their work, explaining the theory behind the various functions and problem solvers, while showcasing applications in diverse scientific and engineering fields.

The material is based on several tried-and-tested courses for scientists and engineers taught by the authors, and all the exercises and problems are classroom-tested.

The required software is freeware developed and maintained by the authors, included on the accompanying CD-ROM, together with an installation tutorial, all the examples and sample codes described in the book, as well as a host of additional examples.

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Editorial Review

From the Back Cover

Engineers and other applied scientists are frequently faced with models of complex systems for which no rigorous mathematical solution can be calculated. Numerical approximations are thus frequently used to predict the behavior of such systems, either based on real-life measurements or on the behavior of simpler models.

This is the engineer's companion to using numerical methods for the solution of complex mathematical problems. It enables readers to use and implement standard numerical tools in their work, explaining the theory behind the various functions and problem-solvers, while showcasing applications in diverse scientific and engineering fields.

The material is based on several tried-and-tested courses for scientists and engineers taught by the authors, and all the exercises and problems are classroom-tested.

The software needed is freeware developed and maintained by the authors, included on the accompanying CD-ROM, together with an installation tutorial, all the examples and sample codes described in the book, as well as a host of additional examples.

An essential tool made transparent for chemical, process and electrical engineers, as well as applied mathematicians in their daily work.

About the Author

Guido Buzzi-Ferraris is full professor of process systems engineering at Politecnico die Milano, Italy, where he holds two courses: "Methods and Numerical Applications in Chemical Engineering" and "Regression Models and Statistics". He works on numerical analysis, statistics, differential systems, and optimization. He has authored books of international relevance on numerical analysis, such as "Scientific C++" edited by Addison-Wesley, and over than 200 papers on international magazines. He is the inventor and the developer of BzzMath library, which is currently adopted by academies, R&D groups, and industries. He is permanent member of the "EFCE Working Party - Computer Aided Process Engineering" since 1969 and editorial advisory board of "Computers & Chemical Engineering" since 1987.

Flavio Manenti is assistant professor of process systems engineering at Politecnico di Milano, Italy. He obtained his academic degree and PhD at Politecnico di Milano, where he currently collaborates with Professor Buzzi-Ferraris. He holds courses on "Process Dynamics and Control of Industrial Processes" and "Supply Chain Optimization" and he works on numerical analysis, process control and optimization. He has also received international scientific awards, such as Memorial Burianec (Prague, CZ) and Excellence in Simulation (Lake Forest, CA, USA), for his research activities and scientific publications.

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Michelle Seidl:

The reason why? Because this Fundamentals and Linear Algebra for the Chemical Engineer is an extraordinary book that the inside of the publication waiting for you to snap the idea but later it will zap you with the secret the item inside. Reading this book close to it was fantastic author who all write the book in such remarkable way makes the content inside of easier to understand, entertaining way but still convey the meaning fully. So, it is good for you for not hesitating having this any longer or you going to regret it. This amazing book will give you a lot of gains than the other book include such as help improving your skill and your critical thinking method. So, still want to hesitate having that book? If I ended up you I will go to the e-book store hurriedly.

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