



Aspen Plus: Chemical Engineering Applications

By Kamal I.M. Al-Malah



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- Facilitates the process of learning and later mastering Aspen Plus® with step by step examples and succinct explanations
- Step-by-step textbook for identifying solutions to various process engineering problems via screenshots of the Aspen Plus® platforms in parallel with the related text
- Includes end-of-chapter problems and term project problems
- Includes online exam and quiz problems for instructors that are parametrized (i.e., adjustable) so that each student will have a standalone version
- Includes extra online material for students such as Aspen Plus®-related files that are used in the working tutorials throughout the entire textbook

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Editorial Review

From the Back Cover

Facilitates the process of learning and later mastering Aspen Plus® with step by step examples and succinct explanations

Aspen Plus® is a full-fledge package that can be cumbersome for beginners. It is a very powerful tool that can be used to tackle different chemical process & unit operation calculation-based tasks, in the form of modelling, simulation, optimization, data regression, design specifications, sensitivity analysis, solids handling, dynamics and control, energy saving, safety compliance, and finally process economic analysis.

Made up of eighteen chapters, *Aspen Plus®: Chemical Engineering Applications* constitutes running tutorials that mainly cover common unit operations or chemical processes found in chemical industries. Moreover, the book has end of chapter contextual problems. The last chapter is made of comprehensive problems (or term projects) that require an extensive knowledge of Aspen Plus® features and tools that are already explained in previous chapters.

Aspen Plus®: Chemical Engineering Applications features:

- Explanations of need to know aspects of Aspen Plus® without providing overwhelming details and avoiding cumbersome Aspen Plus® features
- A running tutorial that the reader can refer to when doing homework, class work, term project, or even individual projects
- Applications to classical chemical processes and unit operations and special processes such as electrolytes, polymerization, drug characterization, and solids handling
- Contextual problems at the end of each chapter and one last dedicated chapter that encompasses term project problems

This textbook is structured as a recipe- or cookbook-type guide with solution for problems algorithmically presented via successive images (i.e., snapshots for the relevant Aspen Plus® platform) in parallel with the textual explanation. Once the chemical engineer masters such a powerful tool, they can use it in their daily professional life. The book can be recommended to all chemical engineering unions, chapters, and organizations.

Kamal Al-Malah, is a professor of chemical engineering at Higher Colleges of Technology in United Arab Emirates, and former chairman of the chemical engineering department at the University of Hail in Saudi Arabia. He holds B.S., M.S., and Ph.D. degrees in chemical/biochemical engineering. Dr. Al-Malah graduated from Oregon State University in 1993 and his area of specialty deals with mathematical modeling, optimization, simulation, and computer-aided design. Professor Al-Malah is Windows-based software developer and MATLAB® book author.

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Kamal Al-Malah, is professor of chemical engineering at Higher Colleges of Technology, United Arab Emirates and former chairman of the chemical engineering department at the University of Hail in Saudi Arabia. He holds B.S., M.S., and Ph.D. degrees in chemical/biochemical engineering. Dr. Al-Malah

graduated from Oregon State University in 1993 and his area of specialty deals with mathematical modeling, optimization, simulation, and computer-aided design. Professor Al-Malah is Windows-based software developer and MATLAB® book author

Users Review

From reader reviews:

Margaret Coleman:

This book untitled Aspen Plus: Chemical Engineering Applications to be one of several books which best seller in this year, this is because when you read this e-book you can get a lot of benefit in it. You will easily to buy this specific book in the book store or you can order it through online. The publisher with this book sells the e-book too. It makes you quickly to read this book, because you can read this book in your Cell phone. So there is no reason for your requirements to past this e-book from your list.

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Barry Whitfield:

In this era which is the greater man or woman or who has ability in doing something more are more treasured than other. Do you want to become considered one of it? It is just simple strategy to have that. What you should do is just spending your time very little but quite enough to get a look at some books. One of the books in the top listing in your reading list is usually Aspen Plus: Chemical Engineering Applications. This book which can be qualified as The Hungry Slopes can get you closer in becoming precious person. By looking up and review this reserve you can get many advantages.

Wilbert York:

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