



# Aspen Plus: Chemical Engineering Applications

*By Kamal I.M. Al-Malah*

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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:**

#### **Debbie Gagnon:**

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#### **Jessica Hodgkins:**

Precisely why? Because this Aspen Plus: Chemical Engineering Applications is an unordinary book that the inside of the e-book waiting for you to snap the idea but latter it will distress you with the secret the item inside. Reading this book adjacent to it was fantastic author who also write the book in such remarkable way makes the content within easier to understand, entertaining means but still convey the meaning entirely. So , it is good for you for not hesitating having this anymore or you going to regret it. This excellent book will give you a lot of positive aspects than the other book have got such as help improving your talent and your critical thinking way. So , still want to hesitate having that book? If I were being you I will go to the reserve store hurriedly.

#### **Ann Conley:**

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