



Multiphase Flow Analysis Using Population Balance Modeling: Bubbles, Drops and Particles

Guan Heng Yeoh, Dr. Chi Pok Cheung, Jiyuan Tu

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Written by leading multiphase flow and CFD experts, this book enables engineers and researchers to understand the use of PBM and CFD frameworks. Population balance approaches can now be used in conjunction with CFD, effectively driving more efficient and effective multiphase flow processes. Engineers familiar with standard CFD software, including ANSYS-CFX and ANSYS-Fluent, will be able to use the tools and approaches presented in this book in the effective research, modeling and control of multiphase flow problems.

- Builds a complete understanding of the theory behind the application of population balance models and an appreciation of the scale-up of computational fluid dynamics (CFD) and population balance modeling (PBM) to a variety of engineering and industry applications in chemical, pharmaceutical, energy and petrochemical sectors
- The tools in this book provide the opportunity to incorporate more accurate models in the design of chemical and particulate based multiphase processes
- Enables readers to translate theory to practical use with CFD software

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