

Introduction to Particle Technology

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Particle technology is a term used to refer to the science and technology related to the handling and processing of particles and powders. The production of particulate materials, with controlled properties tailored to subsequent processing and applications, is of major interest to a wide range of industries, including chemical and process, food, pharmaceuticals, minerals and metals companies and the handling of particles in gas and liquid solutions is a key technological step in chemical engineering.

This textbook provides an excellent introduction to particle technology with worked examples and exercises. Based on feedback from students and practitioners worldwide, it has been newly edited and contains new chapters on slurry transport, colloids and fine particles, size enlargement and the health effects of fine powders. Topics covered include:

- Characterization (Size Analysis)
- Processing (Granulation, Fluidization)
- Particle Formation (Granulation, Size Reduction)
- Storage and Transport (Hopper Design, Pneumatic Conveying, Standpipes, Slurry Flow)
- Separation (Filtration, Settling, Cyclones)
- Safety (Fire and Explosion Hazards, Health Hazards)
- Engineering the Properties of Particulate Systems (Colloids, Respirable Drugs, Slurry Rheology)

This book is essential reading for undergraduate students of chemical engineering on particle technology courses. It is also valuable supplementary reading for students in other branches of engineering, applied chemistry, physics, pharmaceutics, mineral processing and metallurgy. Practitioners in industries in which powders are handled and processed may find it a useful starting point for gaining an understanding of the behavior of particles and powders.

Review of the First Edition taken from *High Temperatures - High pressures* 1999 **31** 243 – 251

"*..This is a modern textbook that presents clear-cut knowledge. It can be successfully used both for teaching particle technology at universities and for individual study of engineering problems in powder processing.*"

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Editorial Review

Review
"It is well written and pedagogical.... Appreciable are the efforts to enrich each chapter with examples which help the reader to better understand the argument and to evaluate what he/she has learned. 'Introduction to Particle Technology' is a book surely recommendable." (*Materials and Manufacturing Process*, Volume 24, Issue 6)

From the Back Cover
Particle technology is a term used to refer to the science and technology relating to the handling and processing of particles and powders. The production of particulate materials, with controlled properties tailored to subsequent processing and applications, is of major interest to a wide range of industries including chemical process, food, pharmaceuticals, minerals and metals companies and the handling of particles in gas and liquid solutions is a key technological step in chemical engineering.

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Review of the First Edition

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About the Author
Martin Rhodes holds a Bachelor's degree in chemical engineering and a PhD in particle technology from Bradford University in the UK, industrial experience in chemical and combustion engineering and many years experience as an academic at Bradford and Monash Universities. He has research interests in various aspects of gas fluidization and particle technology, areas in which he has many refereed publications in journals and international conference proceedings. Martin is on the editorial board of Advanced Powder technology. Martin has a keen interest in particle technology education and has published books and CDROM on Laboratory demonstrations and directed continuing education courses for industry in the UK

and Australia. He was co-founder of the Australasian Particle Technology Society. Martin has a Personal chair in the Department of Chemical Engineering at Monash University, Australia, where he is presently Head of Department.

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