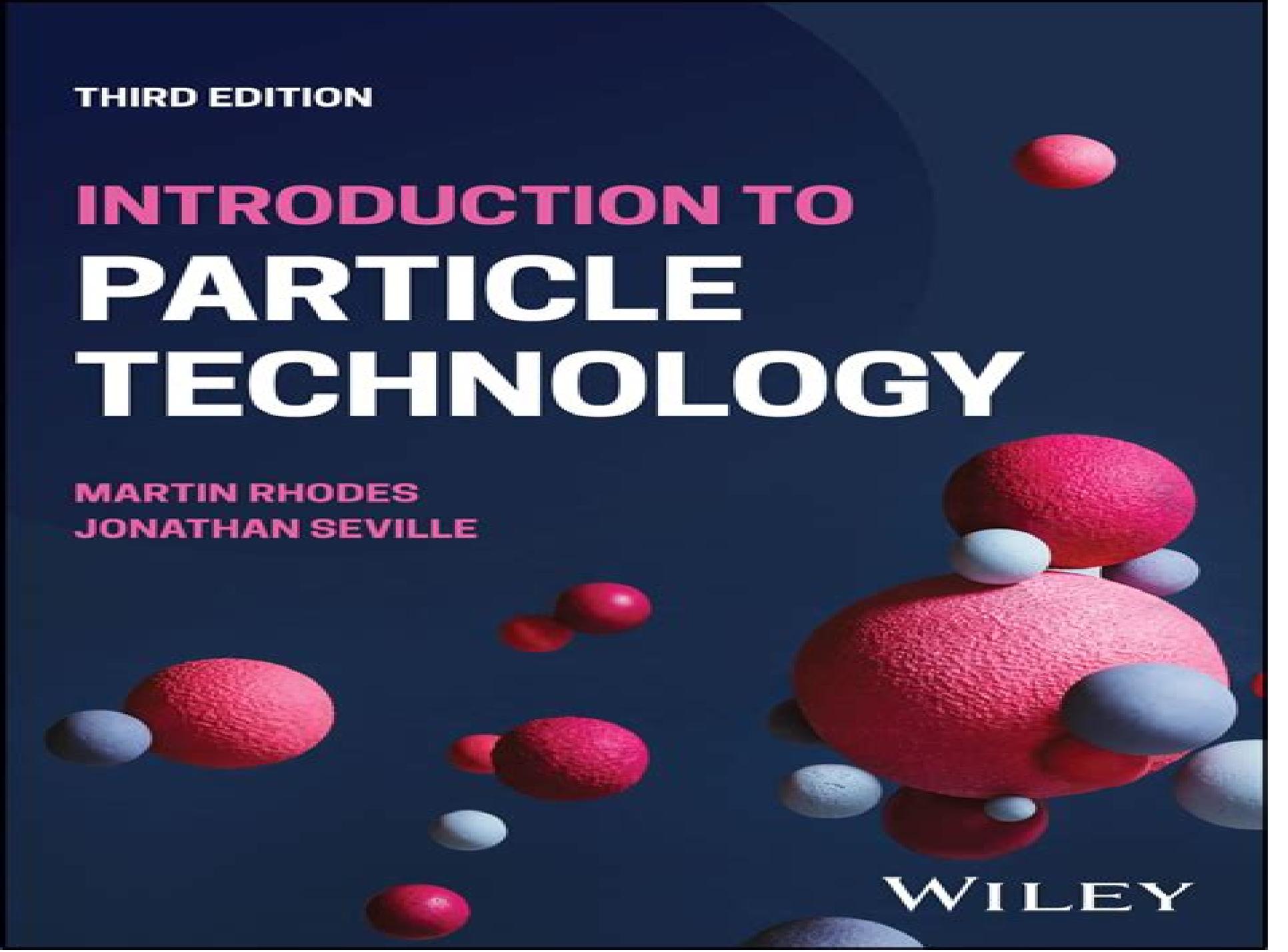


THIRD EDITION

INTRODUCTION TO
**PARTICLE
TECHNOLOGY**

MARTIN RHODES
JONATHAN SEVILLE

WILEY

The background of the cover is a dark blue gradient. Scattered across this background are numerous spheres of varying sizes and colors. The spheres are primarily red and white, with some appearing to have a textured, porous surface. They are arranged in a way that suggests depth and movement, with some spheres appearing to be in the foreground and others receding into the background. The overall aesthetic is clean and modern, typical of a technical or scientific textbook cover.

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Introduction to Particle Technology Martin J. Rhodes, 2008-06-09 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, pharmaceuticals, 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.

Introduction to Particle Technology Martin J. Rhodes, Jonathan Seville, 2024-06-17 INTRODUCTION TO PARTICLE TECHNOLOGY A new edition of the indispensable guide to particulates and powders. Particle technology concerns the formation, processing, and properties of the particles and powders which make up many of the products that surround us. Such products range from the cement and aggregate in the built environment to pharmaceuticals and processed foods. Most of the process industries involve particles either as essential components such as catalysts or as intermediate or final products, and minerals such as the rare earths that are generally mined and processed in particulate form. Particles can have many beneficial uses but they can also cause harm in the environment and through inhalation to the individual. In all cases, the powder properties, particularly particle size, are crucially important. This well-known textbook, now in its 3rd edition, provides an easily understood introduction to the underlying scientific principles of particle technology, together with examples of how these principles can be used in practical design and operation of industrial processes. Each chapter contains both worked examples and exercises for the student. Based on feedback from students and users of the earlier editions, this revised and expanded text includes introductory chapters on particles as products and on computational methods. The topics have been

selected to give coverage of the broad areas of particle technology and include Characterization size analysis surface area Processing granulation fluidization Particle formation granulation crystallisation tableting size reduction Storage and transport hopper design pneumatic conveying standpipes Separation filtration settling cyclones Safety fire and explosion hazards health hazards Engineering the properties of particulate systems to achieve desired product performance Discrete element modelling of particulate systems Introduction to Particle Technology 3rd Edition is essential reading for students of chemical engineering The text is also recommended reading for students of mechanical engineering applied chemistry pharmaceuticals physics mineral processing and metallurgy and is an excellent source for practising engineers and scientists looking to establish a working knowledge of the subject

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INTRODUCTION TO PARTICLE TECHNOLOGY A new edition of the indispensable guide to particulates and powders Particle technology concerns the formation processing and properties of the particles and powders which make up many of the products that surround us Such products range from the cement and aggregate in the built environment to pharmaceuticals and processed foods Most of the process industries involve particles either as essential components such as catalysts or as intermediate or final products and minerals such as the rare earths that are generally mined and processed in particulate form Particles can have many beneficial uses but they can also cause harm in the environment and through inhalation to the individual In all cases the powder properties particularly particle size are crucially important This well known textbook now in its 3rd edition provides an easily understood introduction to the underlying scientific principles of particle technology together with examples of how these principles can be used in practical design and operation of industrial processes Each chapter contains both worked examples and exercises for the student Based on feedback from students and users of the earlier editions this revised and expanded text includes introductory chapters on particles as products and on computational methods The topics have been selected to give coverage of the broad areas of particle technology and include Characterization size analysis surface area Processing granulation fluidization Particle formation granulation crystallisation tableting size reduction Storage and transport hopper design pneumatic conveying standpipes Separation filtration settling cyclones Safety fire and explosion hazards health hazards Engineering the properties of particulate systems to achieve desired product performance Discrete element modelling of particulate systems Introduction to Particle Technology 3rd Edition is essential reading for students of chemical engineering The text is also recommended reading for students of mechanical engineering applied chemistry pharmaceuticals physics mineral processing and metallurgy and is an excellent source for practising engineers and scientists looking to establish a working knowledge of the subject

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