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Descrizione fisica	1 online resource (xxxviii, 833 pages)
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Soggetti	Granular flow Bulk solids flow Chemical engineering
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Nota di contenuto	Chapter 1 - Introduction -- Chapter 2 - Particulate Solids -- Chapter 3 - Particulate Solids in Bulk: Storage and Flow -- Chapter 4 - Classification of Solid Particles From Liquids and Gases -- Chapter 5 - Particle Size Reduction and Enlargement -- Chapter 6 - Motion of Particles in a Fluid -- Chapter 7 - Flow of Fluids Through Granular Beds and Packed Columns -- Chapter 8 - Sedimentation -- Chapter 9 - Fluidisation -- Chapter 10 - Liquid Filtration -- Chapter 11 - Centrifugal Separations -- Chapter 12 - Product Design and Process Intensification -- Chapter 13 - Colloidal Dispersions -- Chapter 14 - Health and Explosion Hazards -- Chapter 15 - Advanced Topics in Particle Technology -- Problems -- Index.
Sommario/riassunto	Coulson and Richardson's Chemical Engineering: Volume 2A: Particulate Systems and Particle Technology, sixth edition, has been fully revised and updated to provide practitioners with an overview of chemical engineering, including clear explanations of theory and thorough coverage of practical applications, all supported by case studies. A worldwide team of contributors has pooled their experience to revise old content and add new content. The content has been updated to be more useful to practicing engineers. This complete

reference to chemical engineering will support you throughout your career, as it covers every key chemical engineering topic. Fluid Flow, Heat Transfer and Mass Transfer has been developed from the series' volume 1, 6th edition. This volume covers the three main transport process of interest to chemical engineers: momentum transfer (fluid flow), heat transfer and mass transfer and the relationships between them. Particulate Systems and Particle Technology has been developed from the series' volume 2, 5th edition. This volume covers the properties of particulate systems, including the character of individual particles and their behavior in fluids. Sedimentation of particles, both singly and at high concentrations, flow in packed and fluidized beads and filtration are then examined. Separation Processes has been developed from the series' volume 2, 5th edition. This volume covers distillation and gas absorption, which illustrate applications of the fundamental principles of mass transfer. Several techniques - adsorption, ion exchange, chromatographic and membrane separations, and process intensification - are described. Chemical and Biochemical Reactors and Reaction Engineering has been developed from the series' volume 3, 3rd edition.

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