

1. Record Nr.	UNINA9910450104403321
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Titolo	Cascade separation of powders [[electronic resource] /] / E. Barsky and M. Barsky
Pubbl/distr/stampa	Cambridge, UK, : Cambridge International Science Pub., 2006
ISBN	1-280-30812-5 9786610308125 1-4237-5049-7 1-904602-43-6
Descrizione fisica	1 online resource (479 p.)
Altri autori (Persone)	BarskyM
Disciplina	620.43
Soggetti	Powders Chemical engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preliminaries; CONTENTS; Chapter 1. GRAIN SIZE COMPOSITION OF BULK MATERIALS; Chapter 2. METHODS OF OPTIMISATION OF THE SEPARATION OF BINARY MIXTURES; Chapter 3. PHYSICAL FUNDAMENTALS OF THE PROCESS OF SEPARATION OF BULK MATERIALS IN MOVING FLOWS; CHAPTER 4. STATISTICAL FUNDAMENTALS OF THE PROCESS; CHAPTER 5. KINEMATIC FUNDAMENTALS OF THE PROCESS; CHAPTER 6. EMPIRICAL FUNDAMENTALS OF THE PROCESS; CHAPTER 7. MATHEMATICAL MODELS OF REGULAR CASCADES; CHAPTER 8. STRUCTURAL MODEL OF THE PROCESS; CHAPTER 9. IRREGULAR CASCADES; CHAPTER 10 COMBINED CASCADE PROCESSES CHAPTER 11 SEPARATION CURVES FOR CASCADE PROCESSES FRACTIONATION OF POWDERSIndex
Sommario/riassunto	The authors describe the theoretical work and practical results obtained in recent years in the area of classification of powders in moving flows. The promising nature of the cascade classification method is stressed. Mathematical models of regular, combined and irregular cascades are described. Mathematical fundamentals of the structural, dynamic and kinetics models of the process are presented. A new approach to

optimising the classification processes, based on the classification curves and information theory, is explained.
