

1. Record Nr.	UNINA9910583077003321
Autore	Duroudier Jean-Paul
Titolo	Solid-solid, fluid-solid, fluid-fluid mixers // Jean-Paul Duroudier
Pubbl/distr/stampa	London : , : ISTE Press Limited, , 2016
ISBN	0-08-101784-7
Descrizione fisica	1 online resource (152 p.)
Collana	Industrial equipment for chemical engineering set
Disciplina	660.6
Soggetti	Chemical engineering
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	Front Cover ; Dedication ; Solid-Solid, Fluid-Solid, Fluid-Fluid Mixers ; Copyright ; Contents; Preface; Chapter 1 Stirring in a Vat: Homogenization of Pasty Products; 1.1 Principles ; 1.2. Power consumed and recirculation rate ; 1.3. Homogenization of a solution ; 1.4. Maintenance of a solid in suspension ; 1.5. Dispersion of a gas in a liquid ; 1.6. Dispersion of a liquid insoluble in another liquid (emulsification) ; 1.7. Mixers for pasty products ; 1.8. Ribbon mixer (pasty products) ; Chapter 2 Dispersion and Dissolution of Powders; 2.1. General points about powders and crystals 2.2. Physics of wetting 2.3. Practice of dispersion - equipment ; 2.4. Dissolution of a small crystal and dissolution of a powder ; 2.5. Continuous-flow dissolution of a suspension ; 2.6. Specific cases ; Chapter 3 Mixture of Divided Solids: Choice of Mixing Devices; 3.1. Criteria for evaluating the homogeneity of a mixture ; 3.2. Autocorrelation function ; 3.3. Acceptance of the quality of a mixture ; 3.4. Evolution of the DS over the course of mixing ; 3.5. Mixers (practical data): choice of device ; 3.6. Segregation ; Appendices ; Appendix 1 Mohs Scale Appendix 2 Apparent Density of Loose Divided Solids (kg.m-3)I - Plant products; II - Inorganic natural products; III - Manufactured products; Bibliography; Index; Back Cover