1. Record Nr. UNINA9910141216603321 Autore Land C. M. van't <1937-> Titolo Drying in the process industry // C. M. van't Land Pubbl/distr/stampa Hoboken, N.J., : Wiley, 2012 **ISBN** 1-283-39804-4 9786613398048 1-118-10582-6 1-118-10581-8 1-118-10584-2 Edizione [1st ed.] Descrizione fisica 1 online resource (395 p.) Classificazione TEC009010 Disciplina 660/.28426 Soggetti Drying Drying apparatus Chemical processes 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 Machine generated contents note: Preface.Acknowledgements.1. Introduction.2. Drying as Part of the Overall Process.3. Procedures for choosing a dryer.4. Convective drying.5. Continuous Fluid-Bed Drying. 6. Continuous Direct-Heat Rotary Drying.7. Flash Drying.8. Spray Drying.9. Miscellaneous Continuous Convective Dryers and Convective Batch Dryers.10. Atmospheric contact dryers.11. Vacuum drying.12. Steam Drying.13. Radiation Drying.14. Product Quality and Safeguarding Drying.15. Continuous Moisture-Measurement Methods, Dryer Process Control, and Energy Recovery.16. Gas/Solid Separation Methods.17. Dryer Feeding Equipment.List of symbols.Index. "This book assists the process development engineer, the process Sommario/riassunto engineer, and the plant engineer in selecting drying equipment. The criteria to be observed are discussed. The procedure concerning the selection of an industrial dryer always starts with the gathering of results of relevant laboratory measurements. The next step is carrying out small-scale tests, the results of which can be scaled up. Procedures for sizing equipment are also covered. Written by an author with over

four decades in the process industries, this book brings an extensively

practical approach for the engineer"--