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Altri autori (Persone)	HaseleyPeter
Disciplina	615.19 660/.28426
Soggetti	Freeze-drying 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	Freeze-Drying; Table of Contents; Preface; Preface to the First Edition; 1 Foundations and Process Engineering; 1.1 Freezing; 1.1.1 Amount of Heat, Heat Conductivity, Heat Transfer and Cooling Rate; 1.1.2 Structure of Ice, Solutions and Dispersions; 1.1.3 Influence of Excipients; 1.1.4 Freezing of Cells and Bacteria; 1.1.5 Methods of Structure Analysis; 1.1.5.1 Measurements of Electrical Resistance (ER); 1.1.5.2 Differential Thermal Analysis (DTA); 1.1.5.3 Cryomicroscopy; 1.1.5.4 Differential Scanning Calorimetry (DSC); 1.1.5.5 Nuclear Magnetic Resonance 1.1.5.6 Thermomechanical Analysis (TMA)1.1.5.7 Dielectric Analysis (DEA); 1.1.5.8 X-ray Diffractometry-Raman Spectroscopy; 1.1.6 Changes of Structure in Freezing or Frozen Products; 1.2 Drying; 1.2.1 Main Drying (Sublimation Drying); 1.2.2 Secondary Drying (Desorption Drying); 1.2.3 Temperature and Pressure Measurement; 1.2.4 Water Vapor Transport During Drying; 1.2.5 Collapse and Recrystallization; 1.2.6 Drying Processes Without Vacuum; 1.3 Storage; 1.3.1 Measurement of the Residual Moisture Content (RM); 1.3.1.1 Gravimetric Method; 1.3.1.2 Karl Fischer (KF) Method 1.3.1.3 Thermogravimetry (TG, TG/MS)1.3.1.4 Infrared Spectroscopy;

1.3.2 Influence of Vial Stoppers on the Residual Moisture Content; 1.3.3 Qualities of the Dry Substances and Their Changes; 1.4 References for Chapter 1; 2 Installation and Equipment Technique; 2.1 Freezing Installation; 2.1.1 Cooling by Liquids: Shell-freezing and Spin-freezing; 2.1.2 Cooled Surfaces; 2.1.3 Product in the Flow of Cold Air, Foaming and Freezing of Extracts and Pulps; 2.1.4 Droplet Freezing in Cold Liquids; 2.1.5 Freezing by Evaporation of Product Water; 2.2 Components of a Freeze-drying Plant
2.2.1 Installations for Flasks and Manifolds
2.2.2 Drying Chambers and Forms of Trays; Trays for Special Applications; 2.2.3 Shelves and their Cooling and Heating; 2.2.4 Water Vapor Condensers; 2.2.5 Refrigerating Systems and Refrigerants; 2.2.6 Vacuum Pumps; 2.2.7 Inlet Venting Filters; 2.2.8 Vacuum Measuring Systems; 2.2.9 Leak Rate Detection; 2.2.10 Process Control Systems; 2.2.11 Problems, Failures and Deviations; 2.3 Installations up to 10 kg Ice Capacity; 2.3.1 Universal Laboratory Plants; 2.3.2 Pilot Plants; 2.3.3 Manipulators and Stoppering Systems for Vials
2.3.4 Cleaning Installations, Sterilization by Steam and Vaporized Hydrogen Peroxide (VHP®)
2.4 Production Plants; 2.4.1 Loading and Unloading Systems; 2.5 Production Plants for Food; 2.5.1 Discontinuous Plants; 2.5.2 Continuous Plants with Tray Transport; 2.5.3 Continuous Plants with Product Transport by Wipers or by Vibration; 2.6 Process Automation; 2.6.1 Prerequisites for Process and Related Plant Automation; 2.6.2 Control of the Process and Related Plant Data by Thermodynamic Data Measured During the Process: Thermodynamic Lyophilization Control (TLC)
2.6.2.1 Control of the Process Without Temperature Sensors in the Product

Sommario/riassunto

Many modern pharmaceutical and biological products, e.g. blood derivatives, vaccines, cytostatic drugs, antibiotics, bacteria cultures but also consumer goods such as soluble coffee are freeze-dried to transform perishable substances into a form that can be stored and reconstituted to their almost original state without loss of quality. The book describes the up-to-date fundamentals of freeze-drying, not just presenting the process in all its seven steps theoretically, but explaining it with many practical examples. Many years of experience in freeze-drying allow the authors to supply valua

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ISBN	2-8107-1059-7
Descrizione fisica	1 online resource (331 p.)
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Formato	Materiale a stampa
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Sommario/riassunto	<p>Tabac, alcool, drogues illicites : ces consommations toxiques constituent pour bien des adolescents l'expression d'un mal-être qu'expliquent en partie l'absence de statut social et le manque de réelles responsabilités citoyennes des jeunes d'aujourd'hui. D'où l'existence, chez eux, d'un singulier rapport au temps. L'emprise et la pression du quotidien ne leur permettent pas de vivre sereinement leur présent et rendent du même coup difficile la construction d'un avenir qui leur apparaît comme incertain et angoissant. De sorte que les jeunes, lorsqu'ils consomment du tabac, de l'alcool et des drogues illicites, recherchent et se créent un "temps à-côté"... Quelles sont les trajectoires qui mènent à ces comportements ? Garçons et filles sont-ils "égaux" en la matière ? Comment financent-ils ces pratiques ? Quel rôle joue le groupe dans ces apprentissages ? Quels en sont les lieux, les moments privilégiés ? "Défonce" ou plaisir, quête de limites ou, paradoxalement, d'une forme de stabilité, quelles significations donner à ces expériences ? Enquêtes par questionnaires, entretiens approfondis, observation participante auprès de groupes d'adolescents et de professionnels de la prévention, ont permis à Sophie Le Garrec de répondre à ces questionnements multiples. En réinscrivant la</p>

population étudiée et ses pratiques dans le contexte socio-économique et dans les configurations sociétales qui sont les leurs, l'auteur offre ici la première étude sociologique des polyconsommations toxiques adolescentes.
