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Titolo	Process analytical technology [[electronic resource]] : spectroscopic tools and implementation strategies for the chemical and pharmaceutical industries / / edited by Katherine A. Bakeev
Pubbl/distr/stampa	Oxford, UK ; ; Ames, Iowa, : Blackwell Pub., 2005
ISBN	1-280-74787-0 9786610747870 0-470-98845-2 1-4051-7319-X
Descrizione fisica	1 online resource (476 p.)
Altri autori (Persone)	BakeevKatherine A
Disciplina	660.2 660.29 660/.2
Soggetti	Chemical process control - Industrial applications Chemistry, Technical Chemistry, Analytic - Technological innovations Chemistry, Analytic - Technique Spectrum analysis Pharmaceutical chemistry
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	Process Analytical Technology : Spectroscopic Tools and Implementation Strategies for the Chemical and Pharmaceutical Industries; Contents; Contributors; Preface; List of Abbreviations; 1 Process Analytical Chemistry: Introduction and Historical Perspective; 1.1 Historical perspective; 1.2 Early instrument development; 1.3 Sampling systems; 1.4 Examples; References; 2 Implementation of Process Analytical Technologies; 2.1 Introduction to implementation of process analytical technologies (PATs) in the industrial setting; 2.1.1 Definition of process analytics 2.1.2 Differences between process analyzers and laboratory analysis2. 1.3 General industrial drivers for process analytics; 2.1.4 Types of

applications (R&D vs. Manufacturing); 2.1.5 Organizational considerations; 2.2 Generalized process analytics work process; 2.2.1 Project identification and definition; 2.2.2 Analytical application development; 2.2.3 Design, specify and procure; 2.2.4 Implementation in production; 2.2.5 Routine operation; 2.2.6 Continuous improvement; 2.3 Differences between implementation in chemical and pharmaceutical industries; 2.3.1 Introduction; 2.3.2 Business model 2.3.3 Technical differences2.3.4 Regulatory differences; 2.4 Conclusions; References; 3 Near-Infrared Spectroscopy for Process Analytical Chemistry: Theory, Technology and Implementation; 3.1 Introduction; 3.2 Theory of near-infrared spectroscopy; 3.2.1 Molecular vibrations; 3.2.2 Anharmonicity of the potential well; 3.2.3 Combination and overtone absorptions in the near-infrared; 3.2.4 Examples of useful near-infrared absorption bands; 3.3 Analyser technologies in the near-infrared; 3.3.1 The scanning grating monochromator; 3.3.2 Light sources and detectors for near-infrared analysers
3.3.3 The polychromator photodiode-array analyser3.3.4 The acousto-optic tunable (AOTF) analyser; 3.3.5 Fourier transform near-infrared analysers; 3.4 The sampling interface; 3.4.1 Introduction; 3.4.2 Further discussion of sampling issues; 3.4.3 The use of fibre-optics; 3.5 Conclusion; Bibliography; 4 Infrared Spectroscopy for Process Analytical Applications; Abstract; 4.1 Introduction; 4.2 Basic IR spectroscopy; 4.3 Instrumentation design and technology; 4.4 Process IR instrumentation; 4.4.1 Commercially available IR instruments; 4.4.2 Important IR component technologies
4.4.3 New technologies for IR components and instruments4.4.4 Requirements for process infrared analyzers; 4.4.5 Sample handling for IR process analyzers; 4.4.6 Issues for consideration in the implementation of process IR; 4.5 Applications of process IR analyzers; 4.6 Process IR analyzers: A review; 4.7 Trends and directions; References; 5 Process Raman Spectroscopy; 5.1 How Raman spectroscopy works; 5.2 When Raman spectroscopy works well and when it does not; 5.2.1 Advantages; 5.2.2 Disadvantages and risks; 5.3 What are the special design issues for process Raman instruments?; 5.3.1 Safety
5.3.2 Laser wavelength selection

Sommario/riassunto

The use of real or near real time measurement of chemical production process parameters as the basis for achieving control or optimisation of a manufacturing process has wide application in the petrochemical, food and chemical industries. Process analytical chemistry (PAC), or process analytical technology (PAT) as it has recently been called, is now being deployed in the pharmaceutical industry, where it is seen as a technology that can help companies to improve their conformity with manufacturing compliance regulations. The objective of this book is to provide a starting point

2. Record Nr. UNINA9910963654903321

Titolo	Hurricane Katrina : America's unnatural disaster / / edited, and with an introduction, by Jeremy I. Levitt and Matthew C. Whitaker
Pubbl/distr/stampa	Lincoln, : University of Nebraska Press, c2009
ISBN	9786612130892 9781282130890 1282130897 9780803224636 080322463X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (323 p.)
Collana	Justice and social inquiry
Altri autori (Persone)	LevittJeremy I. <1970-> WhitakerMatthew C
Disciplina	976/.044
Soggetti	Hurricane Katrina, 2005 Disaster relief - Louisiana - New Orleans African Americans - Louisiana - New Orleans - Social conditions Social justice - Louisiana - New Orleans
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 (p. [281]-306) and index.
Nota di contenuto	"Truth crushed to earth will rise again" : Katrina and its aftermath / Jeremy I. Levitt and Matthew C. Whitaker -- Letters from a native son : do you know what it means to miss New Orleans? / Mitchell F. Crusto -- After Katrina : laying bare the anatomy of American caste / Bryan K. Fair -- Hurricane Katrina and the "market" for survival : the role of economic theory in the construction and maintenance of disaster / Charles R. P. Pouncy -- The Internal Revenue Code don't care about poor, black people / Andrew L. Smith -- Judging under disaster : the effect of Hurricane Katrina on the criminal justice system / Phyllis Kotey -- From worse to where? African Americans, Hurricane Katrina, and the continuing public health crisis / Alyssa G. Robillard -- Failed plans and planned failures : the Lower Ninth Ward, Hurricane Katrina, and the continuing story of environmental injustice / Carlton Waterhouse -- "Still up on the roof" : race, victimology, and the response to Hurricane Katrina / Kenneth B. Nunn -- Governmental liability for the Katrina

	failure / Linda S. Greene -- Katrina, race, refugees, and images of the Third World / Ruth Gordon -- "Been in the storm so long" : Katrina, reparations, and the original understanding of equal protection / D. Marvin Jones.
Sommario/riassunto	On August 29, 2005, Hurricane Katrina slammed into the Gulf Coast states of Louisiana and Mississippi. The storm devastated the region and its citizens. But its devastation did not reach across racial and class lines equally. In an original combination of research and advocacy, Hurricane Katrina: America's Unnatural Disaster questions the efficacy of the national and global responses to Katrina's central victims, African Americans.