1. Record Nr. UNINA990003313640403321

Autore	Deschamps-Pria, Éliane
Titolo	Nouvelles italiennes d'aujourd'hui / Dino Buzzati ... [et al.] ; choix, trad. et notes par Éliane Deschamps-Pria
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Locazione	DECLI
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Lingua di pubblicazione	Francese
Formato	Materiale a stampa
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Titolo	Handbook of pharmaceutical analysis by HPLC / / edited by Satinder Ahuja, Michael W. Dong
Pubbl/distr/stampa	Amsterdam ; ; San Diago, : Elsevier Academic Press, 2005
ISBN	1-280-63057-4 9786610630578 0-08-045518-2
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Collana	Separation science and technology ; ; v. 6
Altri autori (Persone)	AhujaSatinder <1933-> DongM. W
Disciplina	615.1901 615.4
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
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of Pharmaceutical Analysis by HPLC; I. Introduction; II. Key Concepts in HPLC; III. HPLC Instrumentation in Pharmaceutical Analysis; IV. HPLC Columns in Pharmaceutical Analysis; V. Sample Preparation; VI. Method Development; VII. Method Validation; VIII. Ion Chromatography; IX. How to be More Successful with HPLC Analysis; X. Regulatory Practices; XI. HPLC System Calibration; XII. System Validation; XIII. Assay and Stability Testing
XIV. Impurity Evaluations; XV. Dissolution Testing; XVI. Cleaning Validation; XVII. High-throughput Screening; XVIII. Chiral Separations; XIX. LC-MS; XX. LC-NMR; XXI. Chromatography Data Processing; XXII. New Developments in HPLC; References; Chapter 2. Key Concepts of HPLC in Pharmaceutical Analysis; Abstract; I. Introduction; II. Fundamental Concepts; Ill. Mobile Phase Parameters; IV. Isocratic Vs. Gradient Analysis; V. Limit of Quantitation; VI. Glossary of HPLC Terms; VII. Summary and Conclusion; Acknowledgments; References
Chapter 3. HPLC Instrumentation in Pharmaceutical Analysis: Status, Advances, and Trends; Abstract; I. Introduction; II. HPLC Solvent Delivery Systems; III. Manual Injectors; IV. Autosamplers; V. Detectors; VI. UV/VIS Absorbance Detectors; VII. Photodiode Array (PDA) Detectors; VIII. Other Detectors; IX. Data Handling; X. Instrumental Bandwidth (IBW); XI. Instrumentation Trends in Pharmaceutical Analysis; XII. Manufacturers; XIII. Summary and Conclusion; Acknowledgments; References; Chapter 4. HPLC Columns for Pharmaceutical Analysis; Abstract; I. Introduction; II. Column Physics
III. Column Chemistry; IV. Summary; References; Chapter 5. Sample Preparation for HPLC Analysis of Drug Products; Abstract; I. Introduction; II. Sample Preparation Overview; III. Primary SP Concerns for Types of Analysis; IV. Sample Preparation Trends in Pharmaceutical Analysis; V. Case Studies; VI. Summary and Conclusion; Acknowledgments; References; Chapter 6. HPLC Method Development; Abstract; I. Introduction; II. Phase-Appropriate Method Development; III. Proactive Method Development; IV. Development, Validation, and Use of Early Phase Methods; V. Final Method Development and Validation
VI. Conclusions; Acknowledgments; References; Chapter 7. Validation of HPLC Methods in Pharmaceutical Analysis; Abstract; I. Introduction; II. Validation Requirements for Method Type; III. Procedures and Protocols; IV. Validation Parameters; V. Method Validation by Phase of Development; VI. Reference Standards; VII. Method Transfer; VIII. Documentation; IX. Method Revalidation; X. Method-Validation Software; XI. Summary; Acknowledgments; References; Chapter 8. Ion Chromatography; Abstract; I. Introduction; II. Ion Chromatography Instrumentation; III. Chromatographic Components; IV. Pharmaceutical Ion Chromatography Applications

Sommario/riassunto

High pressure liquid chromatography-frequently called high performance liquid chromatography (HPLC or, LC) is the premier analytical technique in pharmaceutical analysis and is predominantly used in the pharmaceutical industry. Written by selected experts in their respective fields, the Handbook of Pharmaceutical Analysis by HPLC Volume 6, provides a complete yet concise reference guide for utilizing the versatility of HPLC in drug development and quality control. Highlighting novel approaches in HPLC and the latest developments in hyphenated techniques, the book captures the essence of

3. Record Nr. UNINA9910300553603321

Autore	Grossmann Frank
Titolo	Theoretical Femtosecond Physics : Atoms and Molecules in Strong Laser Fields / / by Frank Grossmann
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-74542-5
Edizione	[3rd ed. 2018.]
Descrizione fisica	1 online resource (XVIII, 318 p. 121 illus., 40 illus. in color.)
Collana	Graduate Texts in Physics, , 1868-4513
Disciplina	621.366
Soggetti	Atoms Physics Quantum theory Optics Electrodynamics Chemistry, Physical and theoretical Atoms and Molecules in Strong Fields, Laser Matter Interaction Quantum Physics Classical Electrodynamics Physical Chemistry Theoretical and Computational Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A Short Introduction to Laser Physics -- Time-Dependent Quantum Theory -- Field Matter Coupling and Two-Level Systems -- Atoms in Strong Laser Fields -- Molecules in Strong Laser Fields.
Sommario/riassunto	This textbook extends from the basics of femtosecond physics all the way to some of the latest developments in the field. In this updated edition, the chapter on laser-driven atoms is augmented by the discussion of two-electron atoms interacting with strong and short laser pulses, as well as by a review of ATI rings and low energy structures in photo-electron spectra. In the chapter on laser-driven molecules a discussion of 2D infrared spectroscopy is incorporated. Theoretical investigations of atoms and molecules interacting with

pulsed lasers up to atomic field strengths on the order of 10^16 W/cm² are leading to an understanding of many challenging experimental discoveries. The presentation starts with a brief introduction to pulsed laser physics. The basis for the non-perturbative treatment of laser-matter interaction in the book is the time-dependent Schrödinger equation. Its analytical as well as numerical solution are laid out in some detail. The light field is treated classically and different possible gauges for the field-matter interaction are discussed. Physical phenomena, ranging from paradigmatic Rabi-oscillations in two-level systems to the ionization of atoms, the generation of high-order harmonics, the ionization and dissociation of molecules, as well as the control of chemical reactions are presented and discussed on a fundamental level. In this way, the theoretical background for state of the art experiments with strong and short laser pulses is given. The new text is augmented by several additional exercises and now contains a total of forty-eight problems, whose worked-out solutions are given in the last chapter. In addition, some detailed calculations are performed in the appendices. Furthermore, each chapter ends with references to more specialized literature.