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Titolo	Forensic chemistry // Suzanne Bell
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ISBN	1-292-03375-4
Edizione	[Second, Pearson new international edition.]
Descrizione fisica	1 online resource (608 pages) : illustrations, graphs
Collana	Always learning
Disciplina	614.12
Soggetti	Chemistry, Forensic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover -- Table of Contents -- 1. Introduction -- 2. Foundations -- 3. Quality Assurance and Quality Control -- 4. Reporting Defensible Uncertainty and Obtaining Representative Samples -- 5. Chemical Fundamentals: Partitioning, Equilibria, and Acid/Base Chemistry -- 6. Instrumentation -- 7. Drugs as Physical Evidence: Seized Drugs and Their Analysis -- 8. Forensic Drug Analysis: Selected Drug Classes -- 9. Drugs in the Body -- 10. Forensic Toxicology -- 11. The Chemistry of Combustion and Arson -- 12. Explosives -- 13. Firearms and Associated Chemical Evidence -- 14. The Chemistry of Color and Colorants -- 15. The Chemistry of Polymers -- 16. Forensic Analysis of Inks and Paints -- Appendix: Alphabetical Glossary of Terms -- Appendix: Abbreviations -- Appendix: Solvent Properties for SPE and HPLC -- Appendix: Key Organic Chemistry Terms and Reactions -- Appendix: Thermodynamic Quantities -- Appendix: Apothecary and Other Units in Forensic Chemistry -- Appendix: Characteristic Infrared Group Frequencies -- Appendix: Reagents for Color Test Reagents -- Appendix: Tables for Statistical Testing -- Periodic Table of the Elements -- Concentrated Acids and Bases, Prefix Notation -- Optical path of a generic polarizing light microscope and Optical path of a generic light microscope -- Regions of the Infrared Spectrum for Preliminary Analysis -- Some Characteristic Fragment Ions in EI MassSpectrometry (MS) -- Electron Absorption Data for Isolated Chromophores -- Some Characteristic NeutralLosses in EI Mass

Sommario/riassunto

Written specifically for the undergraduate course in Forensic Chemistry, Bell's Forensic Chemistry, Second Edition provides a solid foundation for basic chemistry, introducing chemical concepts and practices from a forensic perspective (including multivariate statistics, quality assurance/quality control, and protocols used in working forensic laboratories). It offers students insight into the legal context in which forensic chemistry is conducted, the variety of types of samples and matrices, and extensive use of instrumentation they will likely encounter in the lab and future professions.