

1. Record Nr.	UNINA9910460840203321
Autore	Shaler Robert C
Titolo	Crime scene forensics : a scientific method approach / / by Robert C Shaler
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , [2011] ©2012
ISBN	0-429-25248-X 1-4398-9773-5
Edizione	[First edition.]
Descrizione fisica	1 online resource (628 p.)
Disciplina	363.252
Soggetti	Crime scenes Crime scene searches Criminal investigation Forensic sciences 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 at the end of each chapters.
Nota di contenuto	Front Cover; Contents; Acknowledgments; Author; Part I: The Philosophy and Essentials of Crime Scene Forensics; 1. Crime Scene Forensics: Philosophy, Practice, and Teaching; 2. The Scientific Method, Bias, and Reasoning; 3. Management Basics: The Investigative Glue; 4. The Fundamental Principles of Evidence; 5. Searching the Scene: Logic in Action; Part II: Forensic Archiving: Today's Eye for the Future; 6. The Principles of Forensic Photography; 7. The Paper Trail: Case Files, Worksheets, Notes, and Sketches; 8. Videography: The Forensic Documentary Part III: Impression Evidence: Patterns of Identity 9. Fingerprints I: The Intellectual Ingredients; 10. Fingerprints II : On-Scene Considerations; 11. Pattern Evidence I: Footwear Impressions; 12. Pattern Evidence II : Vehicle-Involved Scenes; Part IV: The Biological Crime Scene; 13. The Biological Crime Scene: It's Not Just about DNA; 14. Introduction to Bloodstain Pattern Analysis: The Basics; 15. Mass Fatality Events, Bioweapons, and Microbial Forensics; 16. Forensic Entomology: Bugs and the Postmortem Interval; Part V: Microscenes and Trace Evidence;

17. Microscenes: Hair and Fibers  
18. Glass: A Multitasking Class of Evidence  
19. Soil and Paint as Evidence; Part VI: Bang! It's a Shooting Incident Scene; 20. Introducing Shooting Scene Investigations; 21. Vehicles as Shooting Incident Crime Scenes; Part VII: Miscellaneous Considerations and Specialized Scenes; 22. Fire Scenes: A Scientific Method Investigation; 23. Quality at the Crime Scene; 24. Collection and Preservation of Evidence; 25. Scientific and Technical Working Groups; Glossary

**Sommario/riassunto**

Bridging the gap between practical crime scene investigation and scientific theory, *Crime Scene Forensics: A Scientific Method Approach* maintains that crime scene investigations are intensely intellectual exercises that marry scientific and investigative processes. Success in this field requires experience, creative thinking, logic, and the correct application of the science and the scientific method.

2. **Record Nr.**

UNICAMPANIAVAN00133933

**Autore**

Lode, Axel U. J.

**Titolo**

Tunneling Dynamics in Open Ultracold Bosonic Systems : Numerically Exact Dynamics – Analytical Models – Control Schemes : Doctoral Thesis accepted by the University of Heidelberg, Germany / Axel U. J. Lode

**Pubbl/distr/stampa**

Cham, : Springer, 2015

**Titolo uniforme**

Tunneling Dynamics in Open Ultracold Bosonic Systems

**Descrizione fisica**

xix, 139 p. : ill. ; 24 cm

**Soggetti**

81-XX - Quantum theory [MSC 2020]  
81S22 - Open systems, reduced dynamics, master equations, decoherence [MSC 2020]  
81V70 - Many-body theory; quantum Hall effect [MSC 2020]  
82-XX - Statistical mechanics, structure of matter [MSC 2020]  
82C10 - Quantum dynamics and nonequilibrium statistical mechanics (general) [MSC 2020]  
82C20 - Dynamic lattice systems (kinetic Ising, etc.) and systems on graphs in time-dependent statistical mechanics [MSC 2020]

**Lingua di pubblicazione**

Inglese

**Formato**

Materiale a stampa

**Livello bibliografico**

Monografia

3. Record Nr.	UNINA9910953890103321
Autore	Bernstein Joel <1941->
Titolo	Polymorphism in molecular crystals // Joel Bernstein
Pubbl/distr/stampa	Oxford, : Clarendon Press New York, : Oxford University Press, 2002
ISBN	1-281-34127-4 0-19-154501-5 9786611341275 0-19-923656-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (429 p.)
Collana	International Union of Crystallography monographs on crystallography ; ; 14
Disciplina	548/.3
Soggetti	Polymorphism (Crystallography) Molecular crystals
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. [308]-399) and index.
Nota di contenuto	Contents; 1 Introduction and historical background; 1.1 Introduction; 1.2 Definitions; 1.2.1 Polymorphism; 1.2.2 Pseudopolymorphism, solvates, and hydrates; 1.2.3 Conventions for naming polymorphs; 1.3 Is this material polymorphic?; 1.3.1 Occurrence of polymorphism; 1.3.2 Literature sources of polymorphic compounds; 1.3.3 Polymorphic compounds in the Cambridge Structural Database; 1.3.4 Powder Diffraction File; 1.3.5 Patent literature; 1.3.6 Polymorphism of elements and inorganic compounds; 1.3.7 Polymorphism in macromolecular crystals; 1.4 Historical perspective 1.5 Commercial/industrial importance of polymorphism-some additional comments 2 Fundamentals; 2.1 Introduction; 2.2 Thermodynamics of polymorphic molecular crystals; 2.2.1 The Phase Rule; 2.2.2 Thermodynamic relations in polymorphs; 2.2.3 Energy vs temperature diagrams-the Gibbs free energy; 2.2.4 Enantiotropism and monotropism; 2.2.5 Phase diagrams in terms of pressure and temperature; 2.2.6 Heat-of-transition rule; 2.2.7 Heat-of-fusion rule; 2.2.8 Entropy-of-fusion rule; 2.2.9 Heat-capacity rule; 2.2.10 Density rule; 2.2.11 Infrared rule

2.3 Kinetic factors determining the formation of polymorphic modifications  
2.4 Structural fundamentals; 2.4.1 Form vs habit; 2.4.2 Structural characterization and comparison of polymorphic systems; 2.4.3 Presentation of polymorphic structures for comparison; 3 Controlling the polymorphic form obtained; 3.1 General considerations; 3.2 Aggregation and nucleation; 3.3 Thermodynamic vs kinetic crystallization conditions; 3.4 Monotropism, enantiotropism, and crystallization strategy; 3.5 Concomitant polymorphs; 3.5.1 Crystallization methods and conditions  
3.5.2 Examples of different classes of compounds  
3.5.3 The structural approach; 3.6 Disappearing polymorphs; 3.7 Control of polymorphic crystallization by design; 4 Analytical techniques for studying and characterizing polymorphs; 4.1 Introduction; 4.2 Optical/hot stage microscopy; 4.3 Thermal methods; 4.4 X-ray crystallography; 4.5 Infrared spectroscopy; 4.6 Raman spectroscopy; 4.7 Solid state nuclear magnetic resonance (SSNMR) spectroscopy; 4.8 Scanning electron microscopy; 4.9 Atomic force microscopy (AFM) and scanning tunnelling microscopy (STM); 4.10 Density measurements  
4.11 New technologies and 'hyphenated techniques'  
4.12 Are two samples polymorphs of the same compound?; 4.13 Concluding remarks; 5 Conformational polymorphism: intra- and intermolecular energetics; 5.1 Introduction; 5.2 Molecular shape and energetics; 5.3 Intermolecular interactions and energetics; 5.4 The search for examples of conformational polymorphism; 5.5 Presenting and comparing conformational polymorphs; 5.6 Some examples of conformational polymorphism; 5.7 What are conformational polymorphs good for?; 5.8 Computational studies of the energetics of polymorphic systems  
5.9 Some exemplary studies of conformational polymorphism

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## Sommario/riassunto

This book deals with polymorphism - the existence of different solid structures of the same chemical entity (for example graphite and diamond, both composed of carbon) which provide ideal systems for investigating the relationship between the structure and properties of a wide variety of materials. - ;Polymorphism - the multiplicity of structures or forms - is a term that is used in many disciplines. In chemistry it refers to the existence of more than one crystal structure for a particular chemical substance. The properties of a substance are determined by its composition and by its structure

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