

1. Record Nr.	UNINA9910456598203321
Autore	Baldrich Eva
Titolo	Pathogen detection methods [[electronic resource]] : biosensor development // Eva Baldrich and Cristina Garcia-Aljaro
Pubbl/distr/stampa	Hauppauge, N.Y., : Nova Science Publishers, 2010
ISBN	1-61668-699-5
Descrizione fisica	1 online resource (156 p.)
Collana	Biotechnology in agriculture, industry and medicine
Altri autori (Persone)	Garcia-AljaroCristina
Disciplina	610.28/4
Soggetti	Biosensors Food - Microbiology Food - Biotechnology 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	Pathogens at the human environment -- Conventional and rapid methods for pathogen detection -- Biosensors : an alternative to traditional methods -- Biosensors for pathogen detection -- Drawbacks and future trends in pathogen biosensors.

2. Record Nr.	UNISA996490351403316
Autore	Wahab M. A.
Titolo	Symmetry representations of molecular vibrations // M. A. Wahab
Pubbl/distr/stampa	Singapore : , : Springer, , [2022] ©2022
ISBN	9789811928024 9789811928017
Descrizione fisica	1 online resource (300 pages)
Collana	Springer Series in Chemical Physics ; ; v.126
Disciplina	539.6
Soggetti	Molecular spectroscopy Molecular spectroscopy - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- The Electromagnetic Spectrum -- Contents -- About the Author -- 1 Molecular and Crystal Symmetries -- 1.1 Introduction -- 1.2 Symmetry Elements -- 1.3 Symmetry Operations -- 1.4 Molecular Symmetries -- 1.5 Elements of Matrices -- 1.6 Matrix Representation of Symmetry Operations -- 1.7 Molecular Point Groups -- 1.8 Determination of Molecular Point Groups -- 1.9 Crystallographic Point Groups -- 1.10 Point Group Notations -- 1.11 Summary -- 2 Elements of Group Theory and Multiplication Tables -- 2.1 Introduction -- 2.2 Elements of Group Theory -- 2.3 Classifications of Crystallographic Point Groups -- 2.4 Construction of Group Multiplication Tables of 32 Point Groups -- 2.5 Summary -- Appendix -- Group Multiplication Tables of 32 Point Groups -- 3 Orthogonality Theorem and Character Tables -- 3.1 Introduction -- 3.2 Representations -- 3.3 Orthogonality Theorem -- 3.4 Properties of Irreducible Representation -- 3.5 Parts of a Character Table -- 3.6 Characters of Representations in Point Groups -- 3.7 Construction of Character Tables -- 3.8 Mulliken Symbols -- 3.9 Transformation Properties -- 3.10 Summary -- Appendix: Character Tables -- Character Tables for Some Important Point Groups using Schoenflies Notation -- Character Tables for Linear Molecules -- 4 Normal Modes of Molecular Vibrations -- 4.1 Introduction -- 4.2 Molecular Motions --

4.3 Relationship Between Reducible and Irreducible Representations --
4.4 Characters of Matrices of Some Fundamental Symmetry Operations
-- 4.5 Determination of Overall Reducible Representation of Nonlinear
Molecules -- 4.6 Representations of Vibrational Modes of Nonlinear
Molecules -- 4.7 Vibrational Modes in Some Nonlinear Molecules -- 4.8
Vibrational Modes in Some Linear Molecules -- 4.9 Summary -- 5
Vibrational Spectroscopy of Molecules -- 5.1 Introduction.
5.2 Some Useful Observations Concerning Molecular Vibrations -- 5.3
General Survey of Vibrational Spectroscopy -- 5.4 Infrared (IR) Spectral
Region -- 5.5 Theory of IR Absorption -- 5.6 Infrared (IR) Spectrometer
-- 5.7 Fourier Transform Infrared (FTIR) Spectroscopy -- 5.8 Role
of Functional Groups in Vibrational Spectroscopy -- 5.9 Nomenclature
of Internal Modes of Vibration -- 5.10 Theory of Raman Scattering --
5.11 Raman Spectrometer -- 5.12 Fourier Transform (FT) Raman
Spectrometer -- 5.13 Symmetry Based on Some Useful General
Conclusions -- 5.14 Determination of Molecular Structures Using IR
and Raman Results -- 5.15 Correlation Between Super Group-Subgroup
Species -- 5.16 Summary -- Bibliography -- Index -- Untitled.
