

group theory in spectroscopy pdf

In mathematics and abstract algebra, group theory studies the algebraic structures known as groups. The concept of a group is central to abstract algebra: other well-known algebraic structures, such as rings, fields, and vector spaces, can all be seen as groups endowed with additional operations and axioms. Groups recur throughout mathematics, and the methods of group theory have influenced many ...

Group theory - Wikipedia

Near-infrared spectroscopy (NIRS) is a spectroscopic method that uses the near-infrared region of the electromagnetic spectrum (from 780 nm to 2500 nm). Typical applications include medical and physiological diagnostics and research including blood sugar, pulse oximetry, functional neuroimaging, sports medicine, elite sports training, ergonomics, rehabilitation, neonatal research, brain ...

Near-infrared spectroscopy - Wikipedia

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Outlines Basic Theory of Infrared Spectroscopy Molecular vibrational energy, infrared spectroscopy and its selection rules Interpretation of Infrared spectra, group frequency and finger print region

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5. Organic reaction mechanisms involving addition, elimination and substitution reactions with electrophilic, nucleophilic or radical species.

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ABSTRACT. This paper intends to review the basic theory of Near Infrared (NIR) Spectroscopy and its applications in the field of Analytical Science.

Near Infrared Spectroscopy: fundamentals, practical

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