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#### Review

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#### From the Back Cover

The new edition of Modern Spectroscopy is aimed at an undergraduate audience, and is suitable for students of chemistry, physics and chemical physics studying atomic and molecular spectroscopy, lasers and laser spectroscopy, and molecular symmetry. The book introduces the reader to a wide range of spectroscopies, and includes both the background theory and applications to structure determination and chemical analysis. It covers rotational, vibrational, electronic, photoelectron and Auger spectroscopy, as well as EXAFS, and the theory of lasers and laser spectroscopy. A further special feature is the inclusion of such subjects as interferometry, supersonic jet spectroscopy and applications of spectroscopy to astrophysics. New material includes a discussion of icosahedral symmetry and its relevance to the C\_60 molecule, the basics of charge coupled device detectors, an introduction to zero kinetic energy (ZEKE) photoelectron spectroscopy, and simple rules for the division of the vibrations of a molecule into symmetry classes. Reformatted and designed to be user friendly, Modern Spectroscopy provides new worked examples of calculations and other problems covering a wide variety of topics. The author has many years' teaching and research experience in the field which he brings to bear in the clear writing style and wide range of topics in Modern Spectroscopy. Praise for the second edition includes: ... one is left in little doubt that this book is one which could well serve as a gold standard for specialist physical chemistry texts.' - J. Chem. Soc., Faraday Trans. 'The book remains an excellent, up-to-date text on spectroscopy at the undergraduate level,' - J. Mol. Struct.

#### About the Author

Dr. J. Michael Hollas is a retired University lecturer with many years' teaching and research experience.

He has written over 100 research papers. Prior to Modern Spectroscopy he published 3 books, Symmetry in Molecules (Chapman and Hall, 1972), High Resolution Spectroscopy 2.ed. (Wiley, 1998) and Basic Atomic and Molecular Spectroscopy (Royal Society of Chemistry, 2002).

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