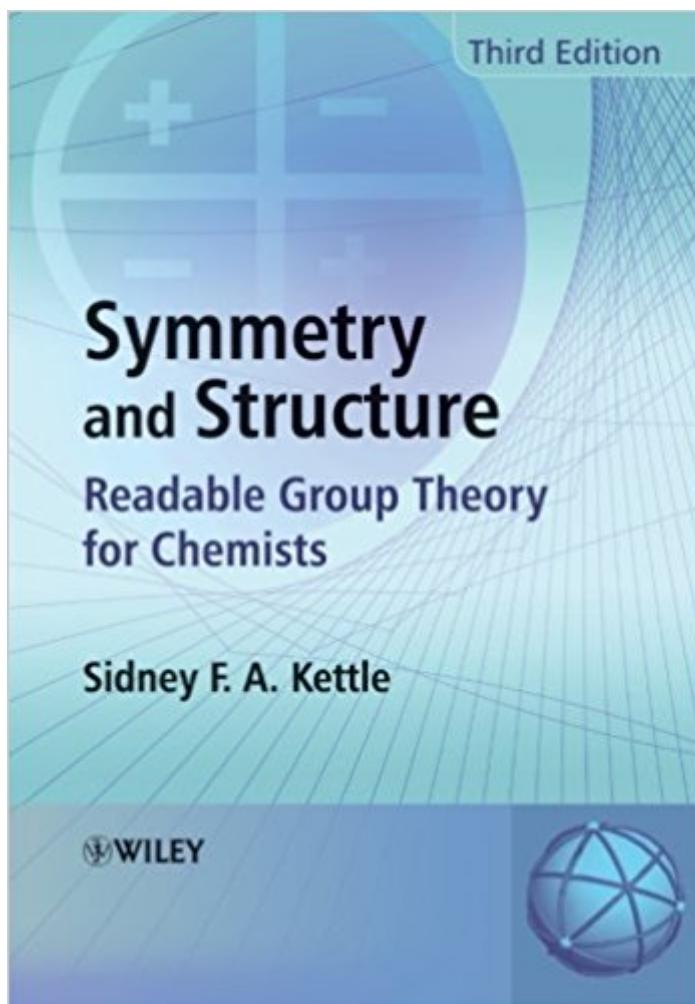


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# Symmetry And Structure: Readable Group Theory For Chemists



## Synopsis

Building on the foundation of the Second Edition, *Symmetry and Structure: Readable Group Theory for Chemists*, Third Edition turns the complex and potentially difficult subject of group theory into an accessible and readable account of this core area of chemistry. By using a diagrammatical approach and demonstrating the physical principles involved in understanding group theory, the text provides a non-mathematical, yet thorough, treatment of this broad topic. This new edition has been fully revised and updated to include a much more three-dimensional and accurate visualization of many of the key topics. The chapter on octahedral molecules is extended to cover the important topic of the ligand field theory of octahedral transition metal complexes. Problems and summaries are included at the end of each chapter, the book provides detailed answers to frequently asked questions, and numerous diagrams and tables are featured for ease of reading and to enhance student understanding. *Symmetry and Structure: Readable Group Theory for Chemists*, Third Edition is an essential textbook for all students, researchers and lecturers in chemistry, biochemistry, chemical engineering, physics and material science.

## Book Information

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## Customer Reviews

"I like this book. I'll use it next time around." (Journal of Chemical Education, July 2010)

The Third Edition of *Symmetry and Structure: Readable Group Theory for Chemists* builds on the foundation of the second edition presenting all aspects of group theory relevant to chemists. By using a diagrammatical approach and demonstrating the physical principles involved in

understanding group theory the book provides a non-mathematical, yet thorough, treatment of this important topic. This new edition has been fully revised and updated to enhance its accessibility. It focuses on the applications and concepts of group theory, rather than the detailed mathematics associated with the subject. The mathematical appendix has been written at an accessible level and character tables have been given a pictorial interpretation in order to offer a deeper insight into the nature of irreducible representations. pictorial representation of character tables large number of diagrams and tables for ease of reading and to enhance student understanding problems and summaries included in each chapter all the applications of group theory covered are applied to the water molecule initially to enable greater student understanding important topics normally regarded as advanced, such as complex characters, spherical symmetry, double groups (odd-electron systems), spin-orbit coupling and space groups are presented in a readable but insightful manner

In this text, Dr. Kettle presents the most lucid introduction available for students wishing to attain an understanding of Group Theory for chemical applications. The text is not overly mathematical in its presentation, setting it apart from the numerous other texts available on this subject. After having read this text, a student is amply able to understand discussions of group theory with respect to spectroscopy or otherwise.

Okay so Davisons out of print but it's so much better (and called Group Theory For Chemists)! This book is a bit badly laid out, doesn't explain things very well and is pretty much useless unless you already have at least a simple grasp of Group Theory. I don't know what awful libraries you lot in Cleveland have but this is certainly not a particularly good book.

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