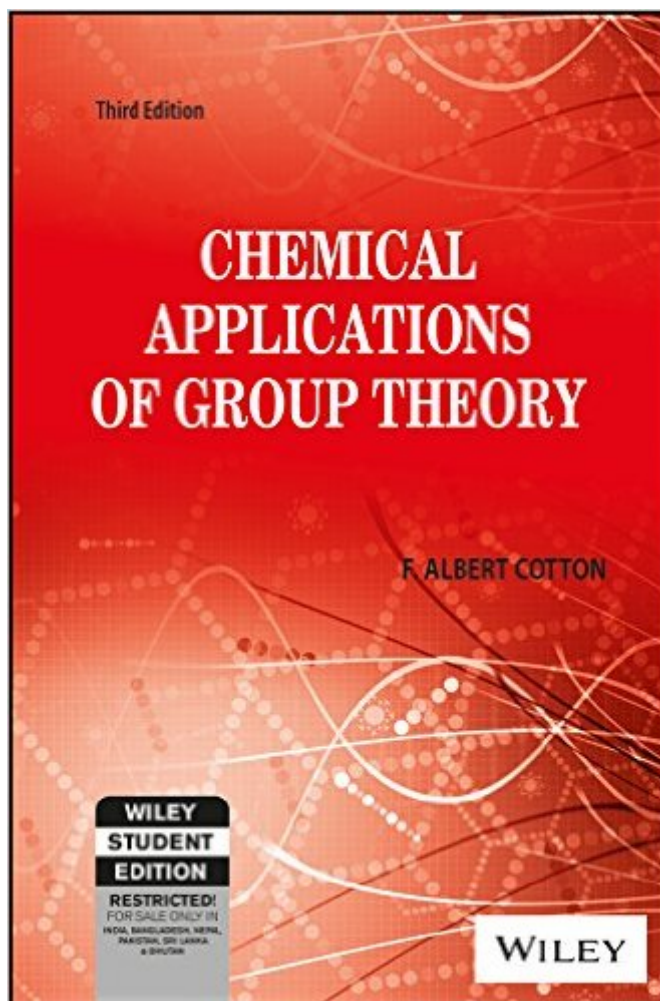


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# Chemical Applications Of Group Theory, 3Rd Ed



## Synopsis

This book retains the easy-to-read format and informal flavor of the previous editions, and includes new material on the symmetric properties of extended arrays (crystals), projection operators, lcao molecular orbitals, and electron counting rules. It also contains many new exercises and illustrations. Part i: principles part ii: applications

## Book Information

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Average Customer Review: 3.7 out of 5 stars [See all reviews](#) (21 customer reviews)

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## Customer Reviews

This book is a double edged sword. As a reference textbook for a person who has already had a significant introduction to group theory and chemical applications of it, this book can't be beat. It provides some very detailed mathematical derivations of the theoretical formulas used within group theory which one may not find in an elementary inorganic text which skims over group theory. Additionally, Cotton covers organic, organometallic and inorganic examples which allows the reader to have a broad spectrum of systems to learn from. The blurbs about molecular vibrations and crystallography were nice too. Finally, Cotton does not lack in providing journal references to the original research that he covers in the text. In lieu of all that, this book is a pain to use in order to learn the principles of group theory. Cotton, in his typical fashion, assumes that the reader is well-versed in linear/matrix algebra (and has a very condescending comment for anyone who MIGHT have to read the matrix algebra appendix he has in the back of the text) and that the reader can visualize symmetry operations readily in their head. There are places in the text where he should go into more detail and provide further examples, but he does not. Lastly, anyone who knows anything about group theory knows that it is a pretty dry subject matter. Cotton doesn't enhance the excitement of learning group theory with his dry, humor-less approach to writing the

text (not to mention that this 3rd edition is already overdue for another overhauling being over a decade old!). In case you have insomnia while taking your group theory course, attempt to read a full chapter in one sitting, you'll be out cold by the second paragraph!

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