



# Symmetry Theory in Molecular Physics with Mathematica

By William Martin McClain

Springer-Verlag GmbH Okt 2009, 2009. Sonstige Video. Book Condition: Neu. 23.5x15.5x cm. Neuware - After a few initial chapters on the basics of Mathematica, the logic of the book is controlled by group theory. It continues to teach Mathematica by example as the need arises, so an important use is always at hand for any new operator that is taught. To many science students, this is a greatly preferred way of learning a new computer language. The main part of the book follows a strictly logical development that should be acceptable to the most rigorous minded people, while maintaining an engaging style in the spirit of Numerical Recipes by Press, Flannery, Teukolsky, and Vetterling. The essence of this style is to be just a little opinionated about good and bad ways to calculate things, but to give such advice without provoking offense, and always on an objective basis. After this comes the development of classes and irreducible representations, culminating in a complete proof that for every group the number of classes is equal to the number of representations, so that all character tables must be square. The proof is motivated throughout by numerical constructions that rouse curiosity, and draw the reader...



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