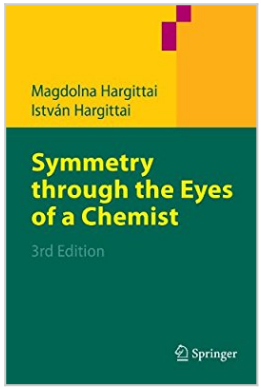

Symmetry through the Eyes of a Chemist

By Magdolna Hargittai, Istvan Hargittai

Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai

It is gratifying to launch the third edition of our book. Its coming to life testi?es about the task it has ful?lled in the service of the com- nity of chemical research and learning. As we noted in the Prefaces to the ?rst and second editions, our book surveys chemistry from the point of view of symmetry. We present many examples from ch- istry as well as from other ?elds to emphasize the unifying nature of the symmetry concept. Our aim has been to provide aesthetic pl- sure in addition to learning experience. In our ?rst Preface we paid tribute to two books in particular from which we learned a great deal; they have in?uenced signi?cantly our approach to the subject matter of our book. They are Weyl's classic, Symmetry, and Shubnikov and Koptsik's Symmetry in Science and Art. The structure of our book has not changed. Following the Int- duction (Chapter 1), Chapter 2 presents the simplest symmetries using chemical and non-chemical examples. Molecular geometry is discussed in Chapter 3. The next four chapters present gro- theoretical methods (Chapter 4) and, based on them, discussions of molecular vibrations (Chapter 5), electronic structures (Chapter 6), and chemical reactions (Chapter 7). For the last two chapters we return to a qualitative treatment and introduce space-group sym- tries (Chapter 8), concluding with crystal structures (Chapter 9). For the third edition we have further revised and streamlined our text and renewed the illustrative material.

Symmetry through the Eyes of a Chemist

By Magdolna Hargittai, Istvan Hargittai

Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai

It is gratifying to launch the third edition of our book. Its coming to life testi?es about the task it has ful?lled in the service of the com- nity of chemical research and learning. As we noted in the Prefaces to the ?rst and second editions, our book surveys chemistry from the point of view of symmetry. We present many examples from ch- istry as well as from other ?elds to emphasize the unifying nature of the symmetry concept. Our aim has been to provide aesthetic pl- sure in addition to learning experience. In our ?rst Preface we paid tribute to two books in particular from which we learned a great deal; they have in?uenced signi?cantly our approach to the subject matter of our book. They are Weyl's classic, Symmetry, and Shubnikov and Koptsik's Symmetry in Science and Art. The structure of our book has not changed. Following the Int- duction (Chapter 1), Chapter 2 presents the simplest symmetries using chemical and non-chemical examples. Molecular geometry is discussed in Chapter 3. The next four chapters present gro-theoretical methods (Chapter 4) and, based on them, discussions of molecular vibrations (Chapter 5), electronic structures (Chapter 6), and chemical reactions (Chapter 7). For the last two chapters we return to a qualitative treatment and introduce space-group sym- tries (Chapter 8), concluding with crystal structures (Chapter 9). For the third edition we have further revised and streamlined our text and renewed the illustrative material.

Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai Bibliography

- Sales Rank: #4373055 in Books
- Brand: Brand: Springer
- Published on: 2010-05-13
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.20" w x 6.10" l, 1.63 pounds
- Binding: Paperback
- 520 pages

Editorial Review

Review

Reviews of previous editions

“This has to be the most delightful book on symmetry ever written!” *F.L. Pilar, Elementary Quantum Chemistry*

“The book gives a fascinating overview of the rich variety of applications of symmetry, showing both its power and its aesthetic appeal.” *Science*

“Education by aesthetic appeal.” *Nature*

“The cosmopolitan eye… good-humored and clearly delighted by diversity, informs this entire book. The work offers a broad new perspective.” *Scientific American*

“In the refreshing style of scientists with an almost renaissance versatility.” *New Scientist*

“This beautiful book… looks at symmetry as a unifying theme in the nature of things.” *Mathematical Reviews*

“…gives the reader a broad perspective…” *The Mathematical Intelligencer*

“An outstanding book that succeeds admirably on a number of levels…” *Bowker’s Good Reading*

“I warmly recommend it to all chemists.” *Journal of Chemical Education*

“Succeeds not only in demonstrating how central [in] the study of all fields of chemistry symmetry consideration [is] but how these same concepts of symmetry can be traced through all our cultural traditions unifying and contrasting diverse endeavors in literature, music, and art.” *Journal of the American Chemical Society*

“The book…to which I shall return frequently and with considerable pleasure.” *Chemistry and Industry*

From the reviews of the third edition:

"This book … is the first to include introductory chapters devoted to each of these manifestations of symmetry. … Magdolna Hargittai and Istvin Hargittai … provide a variety of examples of symmetry in art and decoration, and use examples from these areas throughout the book to illustrate chemical concepts. This work is useful for academic and professional chemists, and could even be of interest and possible inspiration to designers and artists. Summing Up: Recommended. Upper-division undergraduates through professionals; general readers." (A. Fry, Choice, Vol. 47 (1), September, 2009)

From the Back Cover

Symmetry through the Eyes of a Chemist, *3rd Edition*

Magdolna Hargittai and István Hargittai are PhD's (Eötvös University), DSc's (Hungarian Academy of Sciences), and Dr.h.c.'s (University of North Carolina). They are currently affiliated with the Department of Inorganic and Analytical Chemistry and Materials Structure and Modeling Research Group of the Hungarian Academy of Sciences at the Budapest University of Technology and Economics. They are also members of the Hungarian Academy of Sciences and the Academia Europaea (London).

Reviews of previous editions

"This has to be the most delightful book on symmetry ever written!" *F.L. Pilar, Elementary Quantum Chemistry*

"The book gives a fascinating overview of the rich variety of applications of symmetry, showing both its power and its aesthetic appeal." *Science*

"Education by aesthetic appeal." *Nature*

"The cosmopolitan eye… good-humored and clearly delighted by diversity, informs this entire book. The work offers a broad new perspective." *Scientific American*

"In the refreshing style of scientists with an almost renaissance versatility." *New Scientist*

"This beautiful book… looks at symmetry as a unifying theme in the nature of things." *Mathematical Reviews*

"…gives the reader a broad perspective…" *The Mathematical Intelligencer*

"An outstanding book that succeeds admirably on a number of levels…" *Bowker's Good Reading*

"I warmly recommend it to all chemists." *Journal of Chemical Education*

"Succeeds not only in demonstrating how central [in] the study of all fields of chemistry symmetry consideration [is] but how these same concepts of symmetry can be traced through all our cultural traditions unifying and contrasting diverse endeavors in literature, music, and art." *Journal of the American Chemical Society*

"The book…to which I shall return frequently and with considerable pleasure." *Chemistry and Industry*

About the Author
Magdolna Hargittai and István Hargittai are PhD's (Eötvös University), DSc's (Hungarian Academy of Sciences), and Dr.h.c.'s (University of North Carolina). They are currently affiliated with the Department of Inorganic and Analytical Chemistry and Materials Structure and Modeling Research Group of the Hungarian Academy of Sciences at the Budapest University of Technology and Economics. They are also members of the Hungarian Academy of Sciences and the Academia Europaea (London).

Users Review

From reader reviews:

Adam Schneider:

The book Symmetry through the Eyes of a Chemist make one feel enjoy for your spare time. You should use to make your capable a lot more increase. Book can to be your best friend when you getting stress or having big problem together with your subject. If you can make examining a book Symmetry through the Eyes of a Chemist being your habit, you can get far more advantages, like add your own personal capable, increase your knowledge about some or all subjects. You are able to know everything if you like available and read a book Symmetry through the Eyes of a Chemist. Kinds of book are several. It means that, science book or encyclopedia or others. So , how do you think about this book?

Jamey Norton:

What do you about book? It is not important along with you? Or just adding material when you need something to explain what you problem? How about your extra time? Or are you busy man? If you don't have spare time to do others business, it is make one feel bored faster. And you have extra time? What did you do? Everybody has many questions above. They need to answer that question mainly because just their can do in which. It said that about reserve. Book is familiar on every person. Yes, it is correct. Because start from on jardín de infancia until university need this kind of Symmetry through the Eyes of a Chemist to read.

Sylvia Langley:

You could spend your free time to read this book this guide. This Symmetry through the Eyes of a Chemist is simple bringing you can read it in the recreation area, in the beach, train and also soon. If you did not include much space to bring typically the printed book, you can buy often the e-book. It is make you much easier to read it. You can save often the book in your smart phone. Thus there are a lot of benefits that you will get when one buys this book.

Alberto Alvarez:

Beside this particular Symmetry through the Eyes of a Chemist in your phone, it can give you a way to get more close to the new knowledge or details. The information and the knowledge you might got here is fresh from oven so don't possibly be worry if you feel like an old people live in narrow small town. It is good thing to have Symmetry through the Eyes of a Chemist because this book offers to you readable information. Do you at times have book but you seldom get what it's all about. Oh come on, that would not happen if you have this with your hand. The Enjoyable agreement here cannot be questionable, just like treasuring beautiful island. Use you still want to miss this? Find this book and also read it from at this point!

Read Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai for online ebook

Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai books to read online.

Online Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai ebook PDF download

Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai Doc

Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai Mobipocket

Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai EPub

IVK40EHWD16: Symmetry through the Eyes of a Chemist By Magdolna Hargittai, Istvan Hargittai