



# Shapes, Space and Symmetry

By Alan Holden

Download now

Read Online ➔

## Shapes, Space and Symmetry By Alan Holden

"Altogether a most instructive, entertaining, and esthetically pleasing book." — *Science*.

Since the ancient Greeks, the visualization of space has been a challenge that has intrigued men of learning. Through centuries of thoughtful looking, a number of three-dimensional figures or polyhedral, as the Greeks called them, have been discovered, admired, and wondered at for their mathematical elegance and beauty. And they have been put to use in remarkably diverse ways by engineers and builders, chemists and crystallographers, architects and sculptors.

This book describes very clearly and simply, and illustrates with beautiful photographs of models, a great number of three-dimensional figures, all but a few consisting of plane faces bounded by straight lines. It examines the nine regular solids — the five commonly called Platonic, described by Theaetetus in the fourth century B.C., and the four called Kepler-Poinsot, two each of which were discovered by Kepler and Poinsot many centuries later. And it examines many variations obtained by truncation, stellation, dualization, and compounding. Writing for the layman as well as the student or professional in mathematics, Alan Holden explains the structure of the figures and demonstrates how they can be used to explain mathematics visually rather than by symbol systems, an effort hailed by *Scientific American* magazine as "a victory of clear, connected thinking over the theorematic method." At the end of the book the author includes a section containing instructions for constructing cardboard models.

↓ [Download Shapes, Space and Symmetry ...pdf](#)

📖 [Read Online Shapes, Space and Symmetry ...pdf](#)

# Shapes, Space and Symmetry

By Alan Holden

## Shapes, Space and Symmetry By Alan Holden

"Altogether a most instructive, entertaining, and esthetically pleasing book." — *Science*.

Since the ancient Greeks, the visualization of space has been a challenge that has intrigued men of learning. Through centuries of thoughtful looking, a number of three-dimensional figures or polyhedral, as the Greeks called them, have been discovered, admired, and wondered at for their mathematical elegance and beauty. And they have been put to use in remarkably diverse ways by engineers and builders, chemists and crystallographers, architects and sculptors.

This book describes very clearly and simply, and illustrates with beautiful photographs of models, a great number of three-dimensional figures, all but a few consisting of plane faces bounded by straight lines. It examines the nine regular solids — the five commonly called Platonic, described by Theaetetus in the fourth century B.C., and the four called Kepler-Poinsot, two each of which were discovered by Kepler and Poinsot many centuries later. And it examines many variations obtained by truncation, stellation, dualization, and compounding.

Writing for the layman as well as the student or professional in mathematics, Alan Holden explains the structure of the figures and demonstrates how they can be used to explain mathematics visually rather than by symbol systems, an effort hailed by *Scientific American* magazine as "a victory of clear, connected thinking over the theorematic method." At the end of the book the author includes a section containing instructions for constructing cardboard models.

## Shapes, Space and Symmetry By Alan Holden Bibliography

- Sales Rank: #9780786 in Books
- Published on: 1973-09
- Original language: English
- Number of items: 1
- Binding: Paperback
- 200 pages

 [Download Shapes, Space and Symmetry ...pdf](#)

 [Read Online Shapes, Space and Symmetry ...pdf](#)

## **Editorial Review**

### **Users Review**

#### **From reader reviews:**

##### **Marla Mestas:**

Within other case, little people like to read book Shapes, Space and Symmetry. You can choose the best book if you want reading a book. Given that we know about how is important a book Shapes, Space and Symmetry. You can add understanding and of course you can around the world by way of a book. Absolutely right, because from book you can realize everything! From your country right up until foreign or abroad you can be known. About simple issue until wonderful thing you can know that. In this era, we are able to open a book or maybe searching by internet system. It is called e-book. You can use it when you feel uninterested to go to the library. Let's examine.

##### **Mark Dunn:**

Book is to be different for each grade. Book for children until finally adult are different content. As we know that book is very important for us. The book Shapes, Space and Symmetry seemed to be making you to know about other understanding and of course you can take more information. It is extremely advantages for you. The book Shapes, Space and Symmetry is not only giving you much more new information but also to get your friend when you sense bored. You can spend your personal spend time to read your e-book. Try to make relationship together with the book Shapes, Space and Symmetry. You never feel lose out for everything should you read some books.

##### **Harold Smith:**

Do you one of people who can't read satisfying if the sentence chained from the straightway, hold on guys this kind of aren't like that. This Shapes, Space and Symmetry book is readable by you who hate those perfect word style. You will find the details here are arrange for enjoyable reading experience without leaving possibly decrease the knowledge that want to offer to you. The writer associated with Shapes, Space and Symmetry content conveys thinking easily to understand by many people. The printed and e-book are not different in the content material but it just different by means of it. So , do you continue to thinking Shapes, Space and Symmetry is not loveable to be your top record reading book?

##### **Donald Edmond:**

You will get this Shapes, Space and Symmetry by check out the bookstore or Mall. Just viewing or reviewing it could to be your solve trouble if you get difficulties on your knowledge. Kinds of this e-book are various. Not only through written or printed but in addition can you enjoy this book by means of e-book. In the modern era such as now, you just looking of your mobile phone and searching what your problem.

Right now, choose your personal ways to get more information about your e-book. It is most important to arrange you to ultimately make your knowledge are still up-date. Let's try to choose suitable ways for you.

**Download and Read Online Shapes, Space and Symmetry By Alan Holden #N0X1OP7YBWJ**

## **Read Shapes, Space and Symmetry By Alan Holden for online ebook**

Shapes, Space and Symmetry By Alan Holden 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 Shapes, Space and Symmetry By Alan Holden books to read online.

### **Online Shapes, Space and Symmetry By Alan Holden ebook PDF download**

**Shapes, Space and Symmetry By Alan Holden Doc**

**Shapes, Space and Symmetry By Alan Holden Mobipocket**

**Shapes, Space and Symmetry By Alan Holden EPub**