

The book was found

Mathematical Models



Synopsis

This is the classic book of detailed instructions for making a wide variety of mathematical models of all kinds. Complete nets are given for all regular Archimedean and stellated polyhedra together with a number of interesting compounds. There are sections on paper folding, dissections, curve stitching, linkages, the drawing of loci and envelopes and the construction of plane tessellations. The volume is fully illustrated with diagrams and photographs of models in paper and other materials and all have been successfully made and tested. First in the Tarquin Reprint series.

Book Information

Paperback: 286 pages

Publisher: Tarquin Publications; 3rd edition (1981)

Language: English

ISBN-10: 0906212200

ISBN-13: 978-0906212202

Product Dimensions: 5.5 x 0.8 x 8.5 inches

Shipping Weight: 1.1 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 starsÂ See all reviewsÂ (6 customer reviews)

Best Sellers Rank: #1,224,836 in Books (See Top 100 in Books) #93 inÂ Books > Teens > Hobbies & Games > Crafts & Hobbies #381 inÂ Books > Medical Books > Basic Sciences > Immunology #1045 inÂ Books > Science & Math > Mathematics > History

Customer Reviews

This title came up as a recommendation when I was searching for Wenninger's books on polyhedra. Those books are available, but rather pricey (over \$60); I saw Cundy's book and bought it somewhat impulsively to console myself. What luck! It turns out to be much broader in scope than Wenninger's or other books on polyhedra; Cundy is using the word "model" very broadly to describe any number of concrete objects that can be used to "model" mathematical ideas. He describes (and provides clear diagrams) for making cutout cards to demonstrate geometric theorems; a mechanical device which can be used to demonstrate trigonometric functions; ways of drawing or using string to create conic sections, parabolas; and so on. He goes into tessellations, knot theory, and even describes plane figures by Von Koch and Sierpinski - and this written a couple of decades before Mandelbrot brought these figures to a wider audience and named them "fractals". Cundy's chapter on polyhedra is quite thorough, and though he does give explicit instructions on building models, he is perhaps a little more academic than some readers would like. For a book solely focused on

building polyhedral models, I'd recommend the reprinted "Shapes, Space, and Symmetry" by Alan Holden; I've had it for years and have used it to build several beautiful models. But Cundy's book offers the possibility of enjoying a broader range of mathematical ideas in the same concrete way as building polyhedra. Later chapters, for instance, describe ways of building mechanical devices to create complex three-dimensional curves, and the last chapter describes simple electrical circuits that embody principles of Boolean logic, demonstrating in turn the fundamentals of modern computing.

[Download to continue reading...](#)

Microsoft Excel 2013 Building Data Models with PowerPivot: Building Data Models with PowerPivot (Business Skills) Mathematical Models Mathematical Models In Biology Mathematical Models in Developmental Biology (Courant Lecture Notes) Mathematical Biology II: Spatial Models and Biomedical Applications (Interdisciplinary Applied Mathematics) (v. 2) Elementary Cryptanalysis: A Mathematical Approach (Mathematical Association of America Textbooks) Elementary Algebraic Geometry (Student Mathematical Library, Vol. 20) (Student Mathematical Library, V. 20) Handbook of Mathematical Functions: with Formulas, Graphs, and Mathematical Tables (Dover Books on Mathematics) A Course in Mathematical Modeling (Mathematical Association of America Textbooks) The Mathematical Olympiad Handbook: An Introduction to Problem Solving Based on the First 32 British Mathematical Olympiads 1965-1996 (Oxford Science Publications) Mathematical Apocrypha: Stories and Anecdotes of Mathematicians and the Mathematical (Spectrum) Lecture Notes on Mathematical Olympiad Courses: For Junior Section (Mathematical Olympiad Series) Transformation Groups for Beginners (Student Mathematical Library, Vol. 25) (Student Mathematical Library, V. 25) 3D Modeling and Printing with Tinkercad: Create and Print Your Own 3D Models Machine Learning with R Cookbook - 110 Recipes for Building Powerful Predictive Models with R Dynamic Models in Biology Models Don't Eat Chocolate Cookies My iPad for Seniors (Covers iOS 9 for iPad Pro, all models of iPad Air and iPad mini, iPad 3rd/4th generation, and iPad 2) (3rd Edition) 100 CAD Exercises - Learn by Practicing!: Learn to design 2D and 3D Models by Practicing with these 100 CAD Exercises! Advances in Artificial Intelligence: Theories, Models, and Applications: 6th Hellenic Conference on AI, SETN 2010, Athens, Greece, May 4-7, 2010. Proceedings (Lecture Notes in Computer Science)

[Dmca](#)