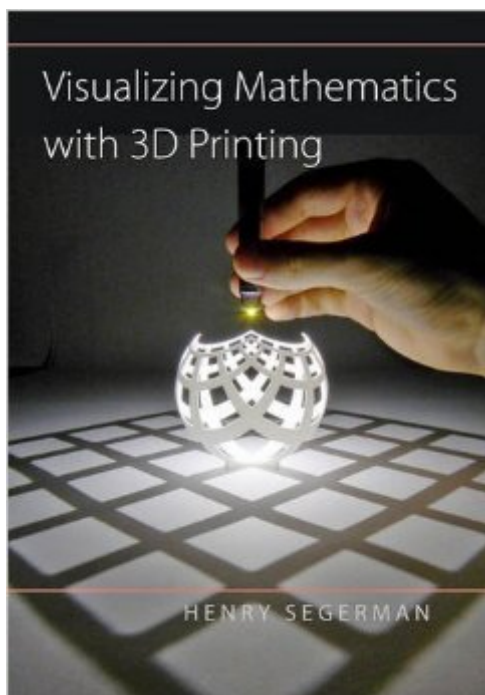


The book was found

# Visualizing Mathematics With 3D Printing



## Synopsis

Wouldn't it be great to experience three-dimensional ideas in three dimensions? In this book—the first of its kind—mathematician and mathematical artist Henry Segerman takes readers on a fascinating tour of two-, three-, and four-dimensional mathematics, exploring Euclidean and non-Euclidean geometries, symmetry, knots, tilings, and soap films. Visualizing Mathematics with 3D Printing includes more than 100 color photographs of 3D printed models. Readers can take the book's insights to a new level by visiting its sister website, [3dprintmath.com](http://3dprintmath.com), which features virtual three-dimensional versions of the models for readers to explore. These models can also be ordered online or downloaded to print on a 3D printer. Combining the strengths of book and website, this volume pulls higher geometry and topology out of the realm of the abstract and puts it into the hands of anyone fascinated by mathematical relationships of shape. With the book in one hand and a 3D printed model in the other, readers can find deeper meaning while holding a hyperbolic honeycomb, touching the twists of a torus knot, or caressing the curves of a Klein quartic.

## Book Information

Hardcover: 200 pages

Publisher: Johns Hopkins University Press (July 25, 2016)

Language: English

ISBN-10: 142142035X

ISBN-13: 978-1421420356

Product Dimensions: 7.2 x 0.6 x 10 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #208,401 in Books (See Top 100 in Books) #12 in Books > Computers & Technology > Graphics & Design > 3D Printing #132 in Books > Computers & Technology > Software > Mathematical & Statistical #195 in Books > Science & Math > Mathematics > Geometry & Topology

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

Visualizing Technology Complete (5th Edition) (Geoghan Visualizing Technology Series) Visualizing Mathematics with 3D Printing Additive Manufacturing: 3D Printing for Prototyping and Manufacturing University of Toronto Mathematics Competition (2001-2015) (Problem Books in Mathematics) Mathematica®: A Problem-Centered Approach (Springer Undergraduate Mathematics Series) Geodetic Datums Made Simple: Step by Step Guide (Surveying Mathematics Made Simple Book

19) Geodetic Datums Made Simple: Step by Step Guide (Surveying Mathematics Made Simple)  
(Volume 19) The Call of the Primes: Surprising Patterns, Peculiar Puzzles, and Other Marvels of  
Mathematics Probability on Trees and Networks (Cambridge Series in Statistical and Probabilistic  
Mathematics) Lectures on BSDEs, Stochastic Control, and Stochastic Differential Games with  
Financial Applications (SIAM Series on Financial Mathematics) The Arithmetic of Elliptic Curves  
(Graduate Texts in Mathematics) Solid Analytic Geometry (Dover Books on Mathematics)  
Differential Geometry of Curves and Surfaces: Revised and Updated Second Edition (Dover Books  
on Mathematics) Spectral Theory of Infinite-Area Hyperbolic Surfaces (Progress in Mathematics) An  
Introduction to the Theory of Reproducing Kernel Hilbert Spaces (Cambridge Studies in Advanced  
Mathematics) Principles of Topology (Dover Books on Mathematics) Introduction to Partial  
Differential Equations (Undergraduate Texts in Mathematics) Understanding Analysis  
(Undergraduate Texts in Mathematics) Fibonacci and Lucas Numbers with Applications, Volume  
One (Pure and Applied Mathematics: A Wiley Series of Texts, Monographs and Tracts) Profinite  
Groups (Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge / A Series of Modern Surveys  
in Mathematics)

[Dmca](#)