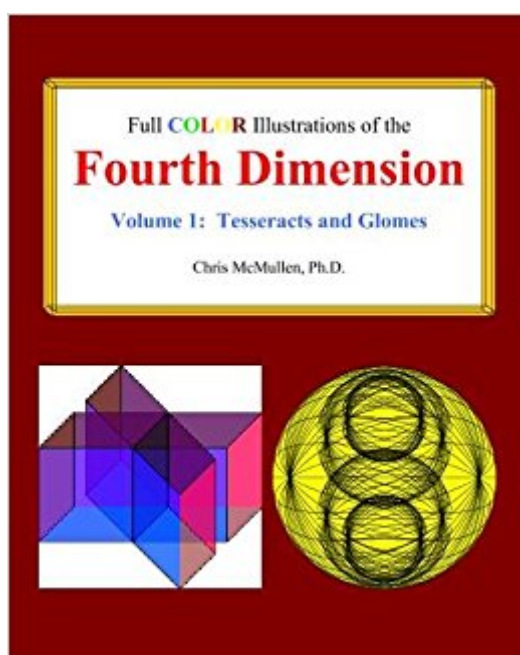


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Full Color Illustrations Of The Fourth Dimension, Volume 1: Tesseracts And Glomes



Synopsis

These full-color illustrations on 8"x10" pages are at once aesthetically captivating and instructive. Each page consists of colorful images of tesseracts (4D hypercubes) or glomes (4D hyperspheres) with a paragraph caption describing the figures at the bottom. Color is used effectively to show how to visualize the features of tesseracts and glomes, how to draw tesseracts in perspective, how a tesseract unfolds, how the features of tesseracts and glomes change as they rotate, how to find the intersection of a tesseract or glome with a hyperplane, how hyperspherical coordinates are defined, how to understand hypercompass directions, and how to draw longitudes, hyperlatitudes, and latitudes. Rectangular hyperboxes and a hyperellipsoid are also shown. Subsequent volumes of this series will build upon these fundamental 4D objects to help you imagine features of a 4D world such as a hyperchair, a hypercross, a hyperpyramid, a hyperhouse, crystal structures, and simple hypermachines.

Book Information

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Customer Reviews

What Readers Like about Dr. McMullen's Books on the Fourth Dimension Readers appreciate that these books are dedicated to the geometry (and science) of a fourth dimension of space, without detours into philosophy and religion. (There are philosophical and spiritual books on the subject for readers looking for those topics.) Readers also appreciate the numerous illustrations, including a variety of unique perspectives (like the 4D graphs of curved hypersurfaces in Extra Dimensions Vol. 1, or possible 4D structures from a 4D world). They also appreciate the range and depth of the

geometric concepts, without having to navigate through advanced mathematical expressions to enjoy contemplating them. More books on the fourth dimension by Chris McMullen, Ph.D. Available in both paperback and Kindle editions.

- (1) *A Visual Guide to Extra Dimensions, Volume 1*. A clear, detailed introduction to the basic geometry of a fourth dimension of space. Packed with black-and-white illustrations.
- (2) *A Visual Guide to Extra Dimensions, Volume 2*. Gets into the physics of a possible fourth dimension of space. Explores what is meant by an extra compact dimension of space.
- (3) *A Visual Introduction to the Fourth Dimension*. Not quite as detailed as the books on Extra Dimensions, but in full color. The use of color helps to visualize the fourth dimension.
- (4) *Full-Color Illustrations of the Fourth Dimension, Volume 1*. Packed with color illustrations of tesseracts and glomes. Each page includes images and a paragraph of text describing the concept.
- (5) *Full-Color Illustrations of the Fourth Dimension, Volume 2*. Packed with color illustrations of tesseracts and glomes. Each page includes images and a paragraph of text describing the concept. Really shows you what it would be like to live in 4D space, from hyperchess to Rubik's tesseract to hyperhomes with hyperfurniture to hyperstairs to hypertelevision to hyperbowling to reading a hyperbook.

Popular science books by Chris McMullen, Ph.D.

- An Introduction to Basic Astronomy Concepts*.
- Understand Basic Chemistry Concepts*.

The author has also published university-level introductory physics textbooks.

Math workbooks by Chris McMullen, Ph.D.

The Improve Your Math Fluency series of math workbooks offers practice with essential math skills in arithmetic, fractions, decimals, percents, algebra, and trigonometry.

Chris McMullen is a physics instructor at Northwestern State University of Louisiana. He earned his Ph.D. in phenomenological high-energy physics (particle physics) from Oklahoma State University in 2002. Originally from California, he earned his Master's degree from California State University, Northridge, where his thesis was in the field of electron spin resonance. He has published several papers on the prospects for discovering large superstring-inspired extra dimensions at the Large Hadron Collider, which is his area of specialization. Dr. McMullen published *The Visual Guide to Extra Dimensions, Volumes 1 and 2*, to share his passion for the geometry and physics of the fourth dimension. He also wrote these books, *Full-Color Illustrations of the Fourth Dimension, Volumes 1 and 2*, to help illustrate the geometry of a fourth dimension of space. Dr. McMullen was fascinated with a fourth dimension of space when he first read Rudy Rucker's introduction to the subject during high school. He happened to be working on his Ph.D. in particle physics when Arkani-Hamed, Dimopoulos, and Dvali wrote a famous technical paper motivating large superstring-inspired extra dimensions, which transformed the subject of the fourth dimension from

philosophy to a plausibly experimental science. Dr. McMullen has published these general-audience books on the fourth dimension to share his passion for the math and physics of extra dimensions. One of his favorite sayings is: May your contemplation of a fourth dimension of space enhance the dimensionality of your thoughts.

Very nice illustrations. Still very hard to visualize the 4th dimension.

Not the best quality book or layout but the points are clear.

Excellent book!

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