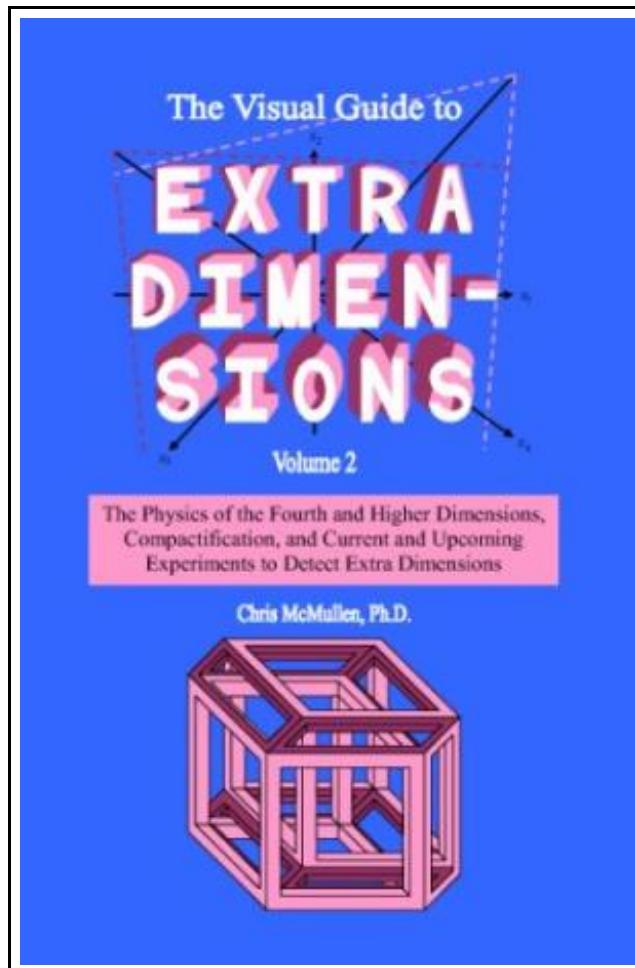


# The Visual Guide to Extra Dimensions: The Physics of the Fourth Dimension, Compactification, and Current and Upcoming Experiments



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Createspace, United States, 2009. Paperback. Book Condition: New. 216 x 140 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. AUTHOR: Chris McMullen earned his Ph.D. in particle physics from Oklahoma State University. Dr. McMullen currently teaches physics at Northwestern State University of Louisiana. His background on the geometry and physics of a possible fourth dimension of space includes a half-dozen research papers on the prospects of discovering large extra dimensions at the Large Hadron Collider. DESCRIPTION: While Volume 1 covered the geometry of extra dimensions in detail, Volume 2 focuses on the physics of extra string-inspired dimensions. Consider the problem and solution of expressing the cross product in higher dimensions. See the effect that the extra flux of field lines has on Gauss's law in higher dimensions. Explore how extra dimensions may be hidden via compactification. Discover the recent motivation for the case of extra dimensions that are much larger than originally predicted by string theory. Read about current and upcoming experiments with the potential to detect the presence of large extra dimensions in our universe. Learn the fundamentals of special and general relativity, quantum mechanics, and string theory, and how these relate to extra dimensions. All on this visual introduction to the fourth and higher dimensions. This guide is conceptually and visually detailed, intended for mathematically-minded readers who may have not yet been exposed to calculus. PUZZLES: Several puzzles are included to challenge the reader to contemplate the fourth dimension. Answers are included at the back of the book.

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