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

By Chris McMullen Ph D

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.DESCRPTION: 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...



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