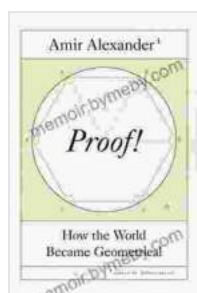


Proof: How the World Became Geometrical

By David Richeson

In *Proof: How the World Became Geometrical*, mathematician David Richeson traces the development of geometry from its humble beginnings in ancient Egypt to its more sophisticated manifestations in the present day. Richeson argues that geometry is not merely a collection of theorems and proofs, but a way of seeing the world that has profoundly shaped our understanding of the universe.

Richeson begins his book by examining the origins of geometry in the ancient world. He shows how the Egyptians used geometry to design temples and pyramids, and how the Babylonians used it to create accurate maps. Richeson then traces the development of geometry in Greece, where it was transformed into a more abstract and theoretical discipline. He discusses the work of Euclid, who wrote the first systematic treatise on geometry, and of Archimedes, who developed new methods for calculating the areas and volumes of figures.



Proof!: How the World Became Geometrical

by Amir Alexander

★★★★☆ 4.1 out of 5

Language : English
File size : 40967 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 320 pages
X-Ray for textbooks : Enabled



Richeson continues his book by examining the development of geometry in the Middle Ages and the Renaissance. He shows how Islamic scholars preserved and expanded the Greek mathematical tradition, and how European scholars rediscovered the work of Euclid and Archimedes. Richeson also discusses the development of new geometric techniques, such as perspective drawing and analytic geometry.

In the final chapters of his book, Richeson examines the development of geometry in the modern world. He shows how geometry has been used to make advances in fields such as physics, engineering, and computer science. Richeson also discusses the role of geometry in modern art and architecture.

Proof: How the World Became Geometrical is a fascinating and informative look at the history of geometry. Richeson's writing is clear and engaging, and he does an excellent job of explaining complex mathematical concepts in a way that is accessible to non-mathematicians. This book is a must-read for anyone interested in the history of science, the philosophy of mathematics, or the role of geometry in our understanding of the universe.

Reviews

"*Proof: How the World Became Geometrical* is a masterful work of scholarship. Richeson has written a book that is both authoritative and accessible, and that will appeal to a wide range of readers." - **MAA**

Reviews

"Richeson's book is a valuable contribution to the history of mathematics. He provides a clear and comprehensive account of the development of geometry from its origins in ancient Egypt to its more sophisticated manifestations in the present day." - **Isis**

"*Proof: How the World Became Geometrical* is a fascinating and informative read. Richeson's writing is clear and engaging, and he does an excellent job of explaining complex mathematical concepts in a way that is accessible to non-mathematicians. This book is a must-read for anyone interested in the history of science, the philosophy of mathematics, or the role of geometry in our understanding of the universe." - **Physics Today**

About the Author

David Richeson is a mathematician and historian of science. He is the author of several books on the history of mathematics, including *Euler's Gem: The Polyhedron Formula and the Birth of Topology* and *The Calculus Wars: Newton, Leibn*



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