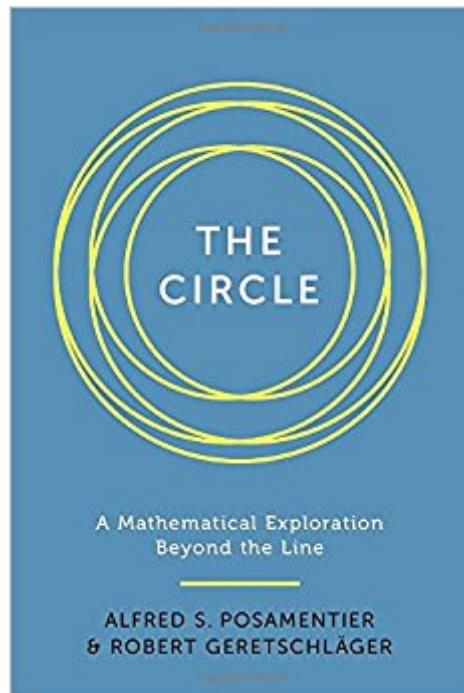




The book was found

The Circle: A Mathematical Exploration Beyond The Line



Synopsis

The circle has fascinated mathematicians since ancient times. This entertaining book describes in layperson's terms the many intriguing properties of this fundamental shape. If math has intimidated you, this may be the ideal book to help you appreciate the discipline through one of its most important elements. The authors begin with a brief review of the basic properties of the circle and related figures. They then show the many ways in which the circle manifests itself in the field of geometry--leading to some amazing relationships and truly important geometric theorems. In addition, they explore remarkable circle constructions and demonstrate how all constructions in geometry that usually require an unmarked straightedge and a compass can also be done with the compass alone. Among other things, the reader will learn that circles can generate some unusual curves - many even quite artistic. Finally, the role of circles in art and architecture and a discussion of the circle's place on the sphere bring "full circle" this presentation of a key element of geometry.

Book Information

Hardcover: 300 pages

Publisher: Prometheus Books (August 23, 2016)

Language: English

ISBN-10: 1633881679

ISBN-13: 978-1633881679

Product Dimensions: 6.3 x 1.2 x 9.3 inches

Shipping Weight: 12.8 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #236,350 in Books (See Top 100 in Books) #26 in Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry #28 in Books > Science & Math > Mathematics > Geometry & Topology > Topology

Customer Reviews

“A fascinating book taking the reader full circle through the circle’s baffling properties. As a layperson I was fascinated by the authors’ subtle way of leading me through complex mathematical formulas—all connected with the circle but never circular. A cleverly written book offering new perspectives for the nonexperts.” —Arthur Mettinger, professor, University of Vienna, Department of English and American Studies; and academic president, FH Campus Wien University of Applied Sciences “This book should be read by everyone who thinks math and geometry are difficult or boring. The authors, leading mathematicians themselves, have taken the topic of circles

and shown us how fascinatingâmagic, indeedâand central to our experience of the world circles are. Posamentier and Geretschläger have explored the world of circles and their many applications in everyday life as well as in geometry, in a way that the most nervous layperson can understand and enjoy. I for one will never look at architecture or art in the same way after reading this book. I especially commend it to every teacher or confused student of mathematics.

•

âBaroness Pauline Perry, former president of Lucy Cavendish College, Cambridge University

âAfter reading this wonderful book, which helped me to recall my early memories of the geometry of circles, I was absolutely enchanted by the wonderful relationships involving circlesâas well as their constructions and their appearances in our culture and on the sphereâthat we should have been exposed to in our school days but never were! This is the book that all who have even the slightest interest in geometry will love, to have their knowledge of circles enriched.

•

âCharlotte Frank, PhD, senior advisor, McGraw-Hill Education; former director of curriculum and instruction, New York City Board of Education; and former regent, University of the State of New York

âThis is a remarkable addition to the geometry literature, giving a very incisive new insight into the role of the circle and how it relates to the line and other geometrical forms. Whatever your background, this is sure to help you reinforce your comprehension of all things geometric.

•

âPeter Taylor (AO), emeritus professor, University of Canberra

âAlfred S. Posamentier and Robert Geretschläger are a congenial mathematical author team; they are impressive not only for their superior content competence but also for their extraordinary talent to present mathematics to the general audience as a fascinating, enriching adventure. This book not only enhances the readerâs knowledge but also is remarkable for its modest tone and splendid style.

•

âRudolf Taschner, professor of mathematics, Vienna University of Technology, and 2004 Austrian Scientist of the Year

âThis volume is a treasure trove on everything you want to know about circles. Starting from simple results in Euclidean geometry, it reaches far both in space and time, revisiting many famous historical problems and considering more modern topics such as inversive geometry and combinatorial geometry. . . . A fantastic collaboration between two noted mathematicians.

•

âAndy Liu, Professor Emeritus, Department of Mathematical and Statistical Sciences, University of Alberta, and vice president, International Mathematics Tournament of the Towns

Alfred S. Posamentier has published over sixty books in the area of mathematics and mathematics education, including, most recently, *Numbers: Their Tales, Types, and Treasures* (with Bernd Thaller). After having been on the faculty of the City College of the City University of New York for forty years, where he was a professor of mathematics education and dean of the School of

Education, he subsequently held the same positions at Mercy College, New York, for five years. He is currently Chief Liaison for International Affairs at Long Island University. Robert Geretschläger is a mathematics teacher at Bundesrealgymnasium Keplerstrasse in Graz, Austria. He is also an adjunct member of the mathematics faculty at the Karl-Franzens University in Graz, the coach of the Austrian International Mathematical Olympiad team, and the president of the "Kangaroo" student mathematics contest in Austria. He is the author of Geometric Origami, among other works.

Posamentier writes in a wholly approachable style making materials that were confusing when young come alive as an adult. Recommended!

Great book!

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

The Circle: A Mathematical Exploration beyond the Line Amish Circle Letters II: The Second Circle of Letters: Contains An Amish Spring, An Amish Summer, An Amish Autumn, and An Amish Winter Circle Series 4-in-1 (The Circle Series) Creative Lettering and Beyond Art & Stationery Kit: Includes a 40-page project book, chalkboard, easel, chalk pencils, fine-line marker, and blank note cards with envelopes (Creative...and Beyond) URBEX: Urban Exploration For Beginners: Discover Abandoned Buildings, Hidden Cities & Access All Areas (Urban Exploration, City Hacking, Caving, Urbex) A Generalized Approach To Primary Hydrocarbon Recovery Of Petroleum Exploration & Production, Volume 4 (Handbook of Petroleum Exploration and Production) Seismic Hydrocarbon Exploration: 2D and 3D Techniques (Advances in Oil and Gas Exploration & Production) Poetry of the Universe: A Mathematical Exploration of the Cosmos Infinity: Beyond the Beyond the Beyond Mathematical Interest Theory (Mathematical Association of America Textbooks) The Mathematical Theory of Non-uniform Gases: An Account of the Kinetic Theory of Viscosity, Thermal Conduction and Diffusion in Gases (Cambridge Mathematical Library) Applied Functional Analysis: Applications to Mathematical Physics (Applied Mathematical Sciences) (v. 108) Mathematical Optimization and Economic Theory (Prentice-Hall series in mathematical economics) Fundamental Algebraic Geometry (Mathematical Surveys and Monographs) (Mathematical Surveys and Monographs Series (Sep.Title P) Elementary Algebraic Geometry (Student Mathematical Library, Vol. 20) (Student Mathematical Library, V. 20) An Introduction to the Mathematical Theory of Waves (Student Mathematical Library, V. 3) A Course in Mathematical Modeling (Mathematical Association of America Textbooks) Handbook of Mathematical Functions: with Formulas, Graphs, and Mathematical Tables (Dover Books on Mathematics) Lecture Notes on Mathematical Olympiad

Courses: For Junior Section Vol 1 (Mathematical Olympiad Series) Mathematical Apocrypha:
Stories and Anecdotes of Mathematicians and the Mathematical (Spectrum)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)