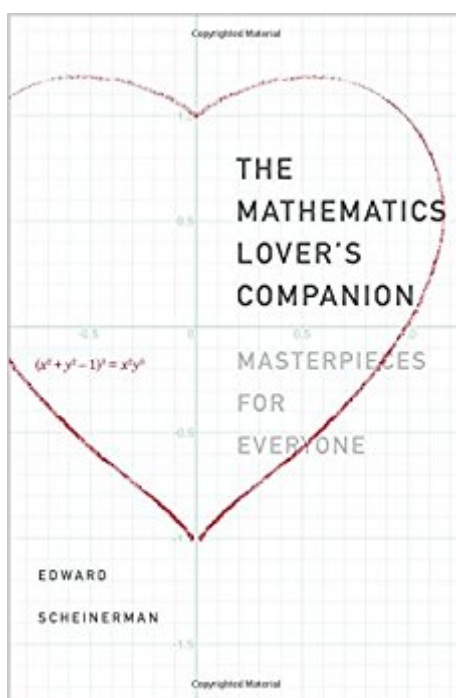


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The Mathematics Lover's Companion: Masterpieces For Everyone



Synopsis

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mathematics. Scheinerman demonstrates the diversity and liveliness of the subject in a friendly and inviting way." — Susan Jane Colley, Oberlin College and Editor, The American Mathematical Monthly "In this well-written book, the reader is taken on a fascinating journey across a broad landscape of beautiful mathematics." — Ron Graham, author of Magical Mathematics "A first-rate mathematician and expositor, Scheinerman takes us on a guided tour of great mathematical ideas. Written with clarity and humor, The Mathematics Lover's Companion will appeal to a wide audience." — Arthur Benjamin, The Magic of Math: Solving for x and Figuring Out Why "An elegant sampler of many beautiful and interesting mathematical topics. This could become one of the best books available for a popular audience interested in what mathematics really is." — Jayadev Athreya, University of Washington

Edward Scheinerman is professor of applied mathematics and vice dean for engineering education at Johns Hopkins University. He has twice won the Mathematical Association of America's Ford Award for excellent mathematical writing.

I really enjoyed this work. The author promises in the preface to provide surprising, not especially well known ideas which highlight the idea of proof and have practical applications but require only a high school math background. A tall order, but mostly accomplished. 23 ideas from number theory, geometry, and probability defined with illuminating examples and some gestures towards how a proof would go. (Not that many applications are discussed.) This is a great way to get interested in the topics covered. It is the kind of book I wish I had in late high school or early college when I was introduced to calculus and linear algebra in a very abstract way.

As a math enthusiast, it's difficult for me to resist buying new math books, especially popular ones that are highly rated. But I do have my preferences regarding math topics, and number theory is definitely not one of them. This book does contain a number of chapters on number theory subjects. However, I found the presentations to be so well done that I enjoyed them as much as the other topics discussed in the book. The book contains 23 chapters, each on a different mathematical subject — some practical, others less so. The writing style is clear, lively, friendly, authoritative, highly accessible and particularly captivating — overall, for me, a page turner! Sure, as a math buff, I did find several explanations/derivations extremely elementary (and unnecessary), but I'm sure that they could be useful to those who are new to the field, thus broadening the book's readership. And these

did not take anything away from my reading enjoyment. In addition, I did learn several rather interesting tidbits. Because of its diversity of topics, I believe that there should be several items in here to please just about everyone. The book's title and subtitle have, in my opinion, been well chosen. I thoroughly enjoyed this wonderful book, and I recommend it to seasoned math enthusiasts (even if only as an entertaining review of familiar topics) as well as those who want to learn math in a most painless and enjoyable way.

Our mathematics instructor is loving this book, and says it will give him new and exciting things to speak of during lectures.

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