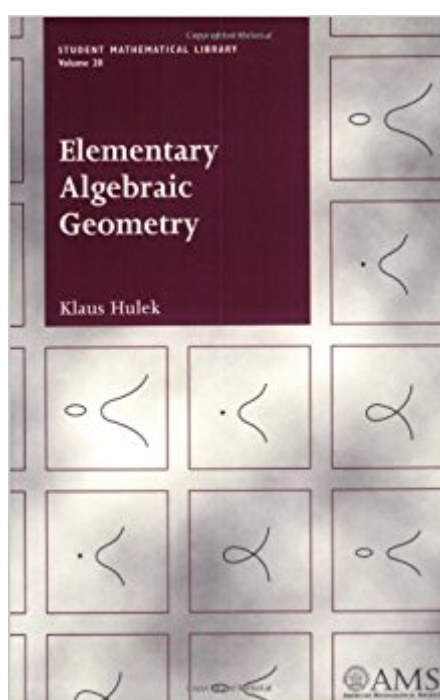The book was found

Elementary Algebraic Geometry (Student Mathematical Library, Vol. 20) (Student Mathematical Library, V. 20)

Synopsis

This is a genuine introduction to algebraic geometry. The author makes no assumption that readers know more than can be expected of a good undergraduate. He introduces fundamental concepts in a way that enables students to move on to a more advanced book or course that relies more heavily on commutative algebra. The language is purposefully kept on an elementary level, avoiding sheaf theory and cohomology theory. The introduction of new algebraic concepts is always motivated by a discussion of the corresponding geometric ideas. The main point of the book is to illustrate the interplay between abstract theory and specific examples. The book contains numerous problems that illustrate the general theory. The text is suitable for advanced undergraduates and beginning graduate students. It contains sufficient material for a one-semester course. The reader should be familiar with the basic concepts of modern algebra. A course in one complex variable would be helpful, but is not necessary. It is also an excellent text for those working in neighboring fields (algebraic topology, algebra, Lie groups, etc.) who need to know the basics of algebraic geometry.

Book Information

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Customer Reviews

"The book balances theory and examples well and the exercises are well-chosen to further illustrate the basic concepts. All in all, the book does an excellent job of explaining what algebraic geometry is about, what are the basic results, and it invites the reader to continue exploring the subject ... I would definitely recommend it as reading material to a bright undergraduate who has taken a basic course on rings and fields and has read about Noetherian rings. It is certainly suitable for a

Text: English (translation) Original Language: German

A very good introduction to AG.

First, a calibration: I am a total neophyte to algebraic geometry, and haven't taken a university algebra course since a few decades ago when I was a physics major. This book is one of several on the subject (along with some books on commutative algebra) that I'm using to get an amateur's orientation.As so often happens, this book looked great in the bookstore. It is thin, reasonably well-illustrated compared to other books in the field, and even helps you gets your toes wet in sheaves, category theory and some other neat topics.That said, I believe the prerequisites in the preface (university algebra, with a complex variables course optional) are understated; e.g. it helps to know something about fibres, lifts and other topics from geometry. It might be relevant that these notes were prepared at a German university; you should consider that "undergraduates" there are heading toward the equivalent of a US M.S. degree, not B.S./B.A.More detrimental is that the presentation slogs from one proof to another and too rarely pauses for breath to consider the "big picture" significance of what you're proving. Notwithstanding that Joe Harris's "Algebraic Geometry: A First Course" is even less of a piece of cake for me than it might be for you, his style is a breath of fresh air when it comes to enlightening you as to some geometric context and payoff for all this effort. Other supplements I found helpful include Reid and Schenck.PS in 2008: I very belatedly found the terrific "An Invitation to Algebraic Geometry," by Karen E. Smith &al. (Springer 2000, corrected printing 2004). This is the hands-down best introduction to the subject, IMHO.

I thought this book was great. Elementary, yet conceptually deep and terrific background for Hartshorne's Algebraic Geometry. I used it as a graduate student in a course in algebraic geometry.

Elementary Algebraic Geometry (Student Mathematical Library, Vol. 20) (Student Mathematical Library, V. 20) Fundamental Algebraic Geometry (Mathematical Surveys and Monographs) (Mathematical Surveys and Monographs Series (Sep.Title P) Algebraic Geometry: A Problem Solving Approach (Student Mathematical Library) Undergraduate Algebraic Geometry (London Mathematical Society Student Texts) Topics in Algebraic and Analytic Geometry. (MN-13), Volume 13: Notes From a Course of Phillip Griffiths (Mathematical Notes) Algebraic Topology: An Intuitive Approach (Translations of Mathematical Monographs, Vol. 183) Algebraic Topology: A Student's Guide (London Mathematical Society Lecture Note Series) ELEMENTARY SCIENCE 2000 TRADE LIBRARY WHATS THE BIG IDEA BEN FRANKLIN COPYRIGHT 2000 (Elementary Science Trade Library) Introduction to Algebraic Geometry Commutative Algebra: with a View Toward Algebraic Geometry (Graduate Texts in Mathematics) Algebraic Geometry and Statistical Learning Theory (Cambridge Monographs on Applied and Computational Mathematics) A Royal Road to Algebraic Geometry An Invitation to Algebraic Geometry (Universitext) Principles of Algebraic Geometry Algebraic Geometry (Graduate Texts in Mathematics) Ideals, Varieties, and Algorithms: An Introduction to Computational Algebraic Geometry and Commutative Algebra (Undergraduate Texts in Mathematics) 3264 and All That: A Second Course in Algebraic Geometry Algebraic Geometry: A First Course (Graduate Texts in Mathematics) (v. 133) Basic Algebraic Geometry 1: Varieties in Projective Space Algebraic and Discrete Mathematical Methods for Modern Biology