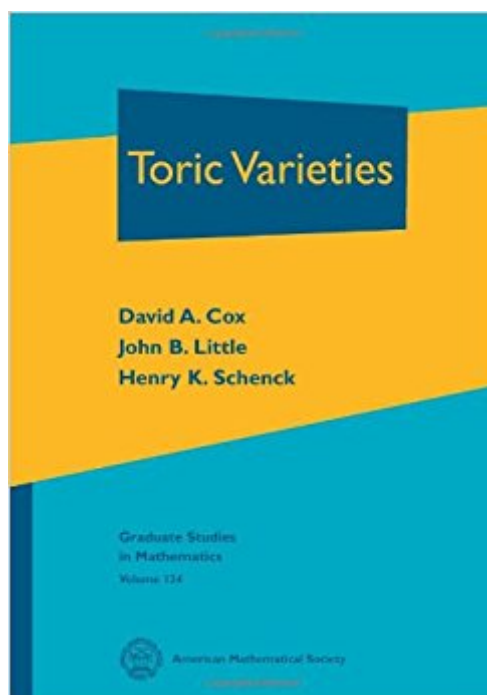


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Toric Varieties (Graduate Studies In Mathematics)



Synopsis

Toric varieties form a beautiful and accessible part of modern algebraic geometry. This book covers the standard topics in toric geometry; a novel feature is that each of the first nine chapters contains an introductory section on the necessary background material in algebraic geometry. Other topics covered include quotient constructions, vanishing theorems, equivariant cohomology, GIT quotients, the secondary fan, and the minimal model program for toric varieties. The subject lends itself to rich examples reflected in the 134 illustrations included in the text. The book also explores connections with commutative algebra and polyhedral geometry, treating both polytopes and their unbounded cousins, polyhedra. There are appendices on the history of toric varieties and the computational tools available to investigate nontrivial examples in toric geometry. Readers of this book should be familiar with the material covered in basic graduate courses in algebra and topology, and to a somewhat lesser degree, complex analysis. In addition, the authors assume that the reader has had some previous experience with algebraic geometry at an advanced undergraduate level. The book will be a useful reference for graduate students and researchers who are interested in algebraic geometry, polyhedral geometry, and toric varieties.

Book Information

Series: Graduate Studies in Mathematics

Hardcover: 841 pages

Publisher: American Mathematical Society (July 7, 2011)

Language: English

ISBN-10: 0821848194

ISBN-13: 978-0821848197

Product Dimensions: 2 x 7.2 x 10.5 inches

Shipping Weight: 3.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #508,937 in Books (See Top 100 in Books) #73 in [Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry](#) #294 in [Books > Textbooks > Science & Mathematics > Mathematics > Geometry](#)

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The book under review is an excellent modern introduction to the subject. It covers both classical results and a large number of topics previously available only in the research literature. The presentation is very explicit, and the material is illustrated by many examples, figures, and

exercises. The book combines many advantages of an introductory course, a textbook, a monograph, and an encyclopaedia. It is strongly recommended to a wide range of readers from beginners in algebraic geometry to experts in the area. ---- Ivan V. Arzhantsev, Mathematical Reviews
 This masterfully written book will become a standard text on toric varieties, serving both students and researchers. The book's leisurely pace and wealth of background material makes it perfect for graduate courses on toric varieties or for self-study. Researchers will discover gems throughout the book and will find it to be a valuable resource. ---- Sheldon Katz

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