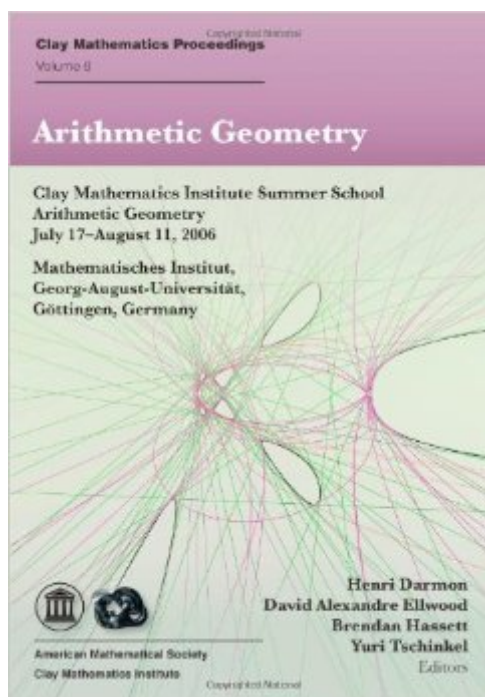


The book was found

Arithmetic Geometry (Clay Mathematics Proceedings)



Synopsis

This book is based on survey lectures given at the 2006 Clay Summer School on Arithmetic Geometry at the Mathematics Institute of the University of Gottingen. Intended for graduate students and recent Ph.D.'s, this volume will introduce readers to modern techniques and outstanding conjectures at the interface of number theory and algebraic geometry. The main focus is rational points on algebraic varieties over non-algebraically closed fields. Do they exist? If not, can this be proven efficiently and algorithmically? When rational points do exist, are they finite in number and can they be found effectively? When there are infinitely many rational points, how are they distributed? For curves, a cohesive theory addressing these questions has emerged in the last few decades. Highlights include Faltings' finiteness theorem and Wiles's proof of Fermat's Last Theorem. Key techniques are drawn from the theory of elliptic curves, including modular curves and parametrizations, Heegner points, and heights. The arithmetic of higher-dimensional varieties is equally rich, offering a complex interplay of techniques including Shimura varieties, the minimal model program, moduli spaces of curves and maps, deformation theory, Galois cohomology, harmonic analysis, and automorphic functions. However, many foundational questions about the structure of rational points remain open, and research tends to focus on properties of specific classes of varieties.

Book Information

Series: Clay Mathematics Proceedings

Paperback: 562 pages

Publisher: American Mathematical Society, Clay Mathematics Institute (October 15, 2009)

Language: English

ISBN-10: 0821844768

ISBN-13: 978-0821844762

Product Dimensions: 1 x 6.8 x 9.5 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,025,138 in Books (See Top 100 in Books) #314 in Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry #1157 in Books > Textbooks > Science & Mathematics > Mathematics > Geometry

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

Arithmetic Geometry (Clay Mathematics Proceedings) Elliptic Curves: Function Theory, Geometry,

Arithmetic The Arithmetic of Elliptic Curves (Graduate Texts in Mathematics) Taxicab Geometry: An Adventure in Non-Euclidean Geometry (Dover Books on Mathematics) Clay Art for All Seasons: A Guide to Soft Clay Art The Encyclopedia of Polymer Clay Techniques: A Comprehensive Directory of Polymer Clay Techniques Covering a Panoramic Range of Exciting Applications Polymer clay: All the basic and advanced techniques you need to create with polymer clay. (Volume 1) Crackle Techniques: The Ultimate Guide for Polymer Clay Art and Craft (The Ultimate Guides for Polymer Clay Book 1) SCULPTING THE EASY WAY IN POLYMER CLAY FOR BEGINNERS 2: How to sculpt a fairy head in Polymer clay (Sculpting the easy way for beginners) Magnetism and Synchrotron Radiation: Towards the Fourth Generation Light Sources: Proceedings of the 6th International School "Synchrotron Radiation ... 2012 (Springer Proceedings in Physics) Information Processing in Medical Imaging: Proceedings of the 8th conference, Brussels, 29 August - 2 September 1983 (Proceedings of the Eighth Conference, Brussels, 29 August-2) Wonderlic Prep Test ARITHMETIC REVIEW Flash Cards--CRAM NOW!--Wonderlic Exam Review Book & Study Guide (Wonderlic Cram Now! 2) Secret Of Mental Math Arithmetic: 70 Secrets To Super Speed Calculation & Amazing Math Tricks: How to Do Math without a Calculator Secret of Mental Math Arithmetic: 70 Secrets to Super Speed Calculation Amazing Math Tricks Subtraction Facts Math Practice Worksheet Arithmetic Workbook With Answers: Daily Practice guide for elementary students and other kids (Elementary Subtraction Series) (Volume 1) Open Geometry: OpenGLÂ® + Advanced Geometry Geometry (Holt McDougal Larson Geometry) Glencoe Geometry, Student Edition (MERRILL GEOMETRY) Geometry Student Edition CCSS (MERRILL GEOMETRY) Geometry, Study Guide and Intervention Workbook (MERRILL GEOMETRY)

[Dmca](#)