New from Princeton

**The Mathematics of Various Entertaining Subjects**
Research in Recreational Math
Edited by Jennifer Beineke & Jason Rosenhouse

*The Mathematics of Various Entertaining Subjects* brings together authors from a variety of specialties to present fascinating problems and solutions in recreational mathematics. Published in association with the National Museum of Mathematics.

**An Imaginary Tale**
The Story of \( \sqrt{-1} \)
Paul J. Nahin

Today, complex numbers have such widespread practical use that few people would expect the story behind them to be filled with adventure and enigma. In *An Imaginary Tale*, Paul Nahin tells the 2000-year history of one of mathematics’ most elusive numbers, the square root of minus one, also known as \( i \).

**Game Theory in Action**
An Introduction to Classical and Evolutionary Models
Stephen Schecter & Herbert Gintis

*Game Theory in Action* is an undergraduate textbook about using game theory across a range of real-life scenarios. From traffic accidents to the sex lives of lizards, Stephen Schecter and Herbert Gintis show students how game theory can be applied in diverse areas including animal behavior, political science, and economics.

**Complex Ball Quotients and Line Arrangements in the Projective Plane**
Paula Tretkoff

This book introduces the theory of complex surfaces through a comprehensive look at finite covers of the projective plane branched along line arrangements.

**Non-Archimedean Tame Topology and Stably Dominated Types**
Ehud Hrushovski & François Loeser

This book lays down model-theoretic foundations for non-archimedean geometry. The methods combine o-minimality and stability theory. Definable types play a central role, serving first to define the notion of a point and then properties such as definable compactness.

**The p-adic Simpson Correspondence**
Ahmed Abbes, Michel Gros & Takeshi Tsuji

The p-adic Simpson correspondence, recently initiated by Gerd Faltings, aims at describing all p-adic representations of the fundamental group of a proper smooth variety over a p-adic field in terms of linear algebra—namely Higgs bundles. This book undertakes a systematic development of the theory following two new approaches.

See our E-Books at press.princeton.edu