



## Introduction to Topology and Geometry, 2nd Edition

Saul Stahl, Catherine Stenson

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### DESCRIPTION

**An easily accessible introduction to over three centuries of innovations in geometry**

Praise for the First Edition

“... a welcome alternative to compartmentalized treatments bound to the old thinking. This clearly written, well-illustrated book supplies sufficient background to be self-contained.” —CHOICE

This fully revised new edition offers the most comprehensive coverage of modern geometry currently available at an introductory level. The book strikes a welcome balance between academic rigor and accessibility, providing a complete and cohesive picture of the science with an unparalleled range of topics.

Illustrating modern mathematical topics, *Introduction to Topology and Geometry, Second Edition* discusses introductory topology, algebraic topology, knot theory, the geometry of surfaces, Riemann geometries, fundamental groups, and differential geometry, which opens the doors to a wealth of applications. With its logical, yet flexible, organization, the *Second Edition*:

- Explores historical notes interspersed throughout the exposition to provide readers with a feel for how the mathematical disciplines and theorems came into being

- Provides exercises ranging from routine to challenging, allowing readers at varying levels of study to master the concepts and methods
- Bridges seemingly disparate topics by creating thoughtful and logical connections
- Contains coverage on the elements of polytope theory, which acquaints readers with an exposition of modern theory

*Introduction to Topology and Geometry, Second Edition* is an excellent introductory text for topology and geometry courses at the upper-undergraduate level. In addition, the book serves as an ideal reference for professionals interested in gaining a deeper understanding of the topic.

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## ABOUT THE AUTHOR

**SAUL STAHL, PhD**, is Professor in the Department of Mathematics at the University of Kansas and twice the winner of the Carl B. Allendoerfer Award from the Mathematical Association of America.

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