



Explorations in Topology, Second Edition: Map Coloring, Surfaces and Knots (Elsevier Insights)

By David Gay

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Explorations in Topology, Second Edition: Map Coloring, Surfaces and Knots (Elsevier Insights) By David Gay

Explorations in Topology, Second Edition, provides students a rich experience with low-dimensional topology (map coloring, surfaces, and knots), enhances their geometrical and topological intuition, empowers them with new approaches to solving problems, and provides them with experiences that will help them make sense of future, more formal topology courses.

The book's innovative story-line style models the problem-solving process, presents the development of concepts in a natural way, and engages students in meaningful encounters with the material. The updated end-of-chapter investigations provide opportunities to work on many open-ended, non-routine problems and, through a modified "Moore method," to make conjectures from which theorems emerge. The revised end-of-chapter notes provide historical background to the chapter's ideas, introduce standard terminology, and make connections with mainstream mathematics. The final chapter of projects provides ideas for continued research.

Explorations in Topology, Second Edition, enhances upper division courses and is a valuable reference for all levels of students and researchers working in topology.

- Students begin to solve substantial problems from the start
- Ideas unfold through the context of a storyline, and students become actively involved
- The text models the problem-solving process, presents the development of concepts in a natural way, and helps the reader engage with the material

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Editorial Review

Review

"...the tasks that are asked of the reader are challenging and require clear thinking. This text could be an exiting tool for self study or a non-traditional course that is not just based on lectures."--**Zentralblatt MATH, Sep-14**

"Each chapter ends with a section marked "Notes", typically about two pages long, which gives a somewhat broader perspective of the material covered in that chapter, typically placing each topic in historical context, and sometimes giving precise definitions and statements of theorems."--**MAA.org, May 4, 2014**

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