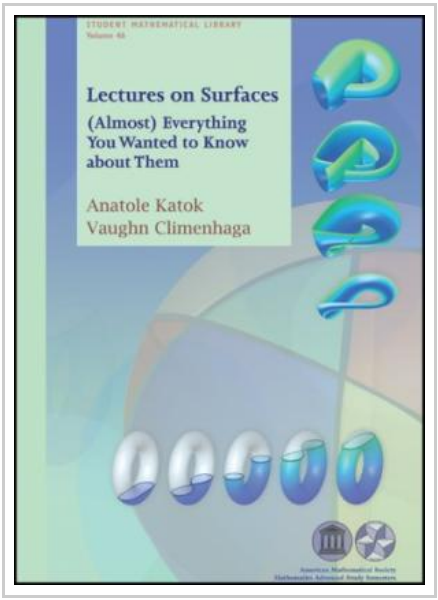

Lectures on Surfaces: (Almost) Everything You Wanted to Know About Them

By Anatole Katok, Vaughn Climenhaga

American Mathematical Society. Paperback. Book Condition: new. BRAND NEW, Lectures on Surfaces: (Almost) Everything You Wanted to Know About Them, Anatole Katok, Vaughn Climenhaga, Surfaces are among the most common and easily visualized mathematical objects, and their study brings into focus fundamental ideas, concepts, and methods from geometry, topology, complex analysis, Morse theory, and group theory. At the same time, many of those notions appear in a technically simpler and more graphic form than in their general 'natural' settings. The first, primarily expository, chapter introduces many of the principal actors - the round sphere, flat torus, Mobius strip, Klein bottle, elliptic plane, etc. - as well as various methods of describing surfaces, beginning with the traditional representation by equations in three-dimensional space, proceeding to parametric representation, and also introducing the less intuitive, but central for our purposes, representation as factor spaces.It concludes with a preliminary discussion of the metric geometry of surfaces, and the associated isometry groups. Subsequent chapters introduce fundamental mathematical structures - topological, combinatorial (piecewise linear), smooth, Riemannian (metric), and complex - in the specific context of surfaces. The focal point of the book is the Euler characteristic, which appears in many different guises and ties together concepts...

Reviews

It in a of the best publication. It really is rally intriguing throgh reading through period of time. You will not feel monotony at anytime of your own time (that's what catalogs are for relating to in the event you request me).

-- ***Dr. Pat Hegmann***

It in one of my favorite publication. It is among the most awesome publication i have go through. I am just quickly will get a delight of reading through a published publication.

-- ***Prof. Martin Zboncak DVM***