Differential Geometry of Curves and Surfaces (2nd Revised edition)

By Thomas F. Banchoff, Stephen T. Lovett

Apple Academic Press Inc. Hardback. Book Condition: new. BRAND NEW, Differential Geometry of Curves and Surfaces (2nd Revised edition), Thomas F. Banchoff, Stephen T. Lovett, Differential Geometry of Curves and Surfaces, Second Edition takes both an analytical/theoretical approach and a visual/intuitive approach to the local and global properties of curves and surfaces. Requiring only multivariable calculus and linear algebra, it develops students' geometric intuition through interactive computer graphics applets supported by sound theory. The book explains the reasons for various definitions while the interactive applets offer motivation for certain definitions, allow students to explore examples further, and give a visual explanation of complicated theorems. The ability to change parametric curves and parametrized surfaces in an applet lets students probe the concepts far beyond what static text permits. New to the Second Edition * Reworked presentation to make it more approachable * More exercises, both introductory and advanced * New section on the application of differential geometry to cartography * Additional investigative project ideas * Significantly reorganized material on the Gauss-Bonnet theorem * Two new sections dedicated to hyperbolic and spherical geometry as applications of intrinsic geometry * A new chapter on curves and surfaces in Rn Suitable for an undergraduate-level...

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