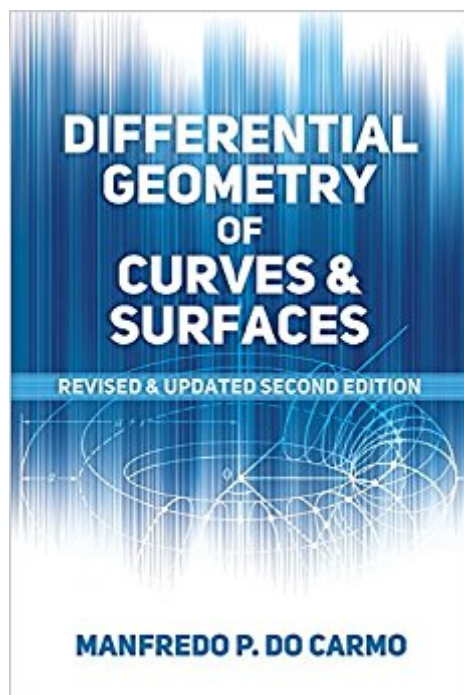




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Synopsis

One of the most widely used texts in its field, this volume introduces the differential geometry of curves and surfaces in both local and global aspects. The presentation departs from the traditional approach with its more extensive use of elementary linear algebra and its emphasis on basic geometrical facts rather than machinery or random details. Many examples and exercises enhance the clear, well-written exposition, along with hints and answers to some of the problems. The treatment begins with a chapter on curves, followed by explorations of regular surfaces, the geometry of the Gauss map, the intrinsic geometry of surfaces, and global differential geometry. Suitable for advanced undergraduates and graduate students of mathematics, this text's prerequisites include an undergraduate course in linear algebra and some familiarity with the calculus of several variables. For this second edition, the author has corrected, revised, and updated the entire volume.

Book Information

Series: Dover Books on Mathematics

Paperback: 528 pages

Publisher: Dover Publications; 2 edition (December 14, 2016)

Language: English

ISBN-10: 0486806995

ISBN-13: 978-0486806990

Shipping Weight: 8 ounces (View shipping rates and policies)

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