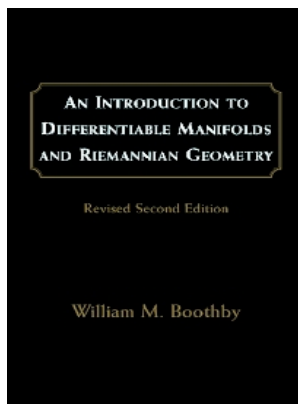


# Introduction to manifolds

Springer - Introduction to 3



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Franziskanische Hefte -- Nr. 4  
Universitext Introduction to manifolds  
Notes: Includes bibliographical references (p. [347]) and index.  
This edition was published in 2008



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However, I'd probably still stick with Figure 4, which is much more accurate. Hubbard covers all the necessary linear algebra and presents to you calculus on manifolds, while integrating it into vector calculus. I hope you mani-like it! Manifolds, the higher-dimensional analogs of smooth curves and surfaces, are fundamental objects in modern mathematics.

### I Introduction to Manifolds

What I meant for that section was to start with differentiation of , then move to the case of differentiating a function like , and then finally extend this idea to arbitrary manifolds.

#### reference request

If this is the case, then this seems to me like an unfair comparison. Michor's text might be considered as a 'second' textbook, at least if you look at the topics he covers. The reason is the electronic devices divert your attention and also cause strains while reading eBooks.

### Introduction to Topological Manifolds

In the latter chapters it also briefly scratches interesting topics from algebraic topology and group theory. In the end, we must not forget that the old masters that founded the subject were much more visual than the modern abstract approaches to geometry, and that motivation was what culminated in the unified abstract approach of nowadays.

### An Intuitive Introduction to Manifolds & Topology, Part I

This second edition has been extensively revised and clarified, and the topics have been substantially rearranged. As usual, I'll go through some intuition, definitions, and examples to help clarify the ideas without going into too much depth or formalities. A fascinating example of such a difference is that.

#### reference request

Now, if you skip straight to Section 5 where manifold theory begins proper, this is still a very good book. Springer has told me they will replace any book with substandard print quality regardless of where you purchased it.

### **Introduction to Riemannian Manifolds**

It is very well written, clear and explicit in its presentation. The key thing to remember is that manifolds are all about mappings. It's very similar to the examples above as long as you can keep track of which coordinate system you are working in.

## Related Books

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