

1: Differential Geometry I

Buy Modern Geometry _ Methods and Applications: Part I: The Geometry of Surfaces, Transformation Groups, and Fields (Graduate Texts in Mathematics) (Pt. 1) on www.enganchecubano.com FREE SHIPPING on qualified orders.

Topics covered include tensors and their differential calculus, the calculus of variations in one and several dimensions, and geometric field theory. This new edition offers substantial revisions, and the material is written in concrete language with terminology acceptable to physicists. He presents pretty much every idea in multiple ways and from multiple viewpoints, illustrating the ubiquity and flexibility of the ideas. He gives concrete examples of the concepts so you can see them in action. The examples are selected from a very wide range of physical problems. He presents the ideas in a formal setting first but then gives them in a form useful for actual computation or working problems one would actually encounter. He segregates the material cleanly into what I would call "algebraic" and "differential" sections. Thus, if you are interested in only a specific viewpoint or topic, you can fairly well read that section independent of the others. There is virtually no prerequisite knowledge for this text, and yet it provides enough to not bore even the "sophisticated reader", for even they will no doubt learn something from the elegant presentation. I only own the first volume, but I have looked at the others in libraries and I would say for the most part the above holds for them too, making this three-volume set truly a masterpiece, a pearl in the sea of mathematical literature. Anyone interested in a readable, relevant, viable introduction to the huge world of differential geometry will not be disappointed. Title is misleading By Johan Stalpaert on Dec 02, While this is an excellent text on Geometry, the title is misleading: By Professor Joseph L. Mccauley on Jan 21, Written for physicists in language that physicists can follow, the book starts with advanced calculus geometry of surfaces and curves in 2D and 3D and provides a readable and informative introduction to Riemannian geometry, including connections defined by structure coefficients of a Lie algebra, all the way through gauge theories. However, the books by Schutz and by Nakahara cover interesting topics not included here, so see them as well. This a classic in mathematics By Waldemar on Apr 28, This book is a classic in the subject and I think is obligated to have in your library. I recommended of people interested in the differential geometry read and read this book, is a nice piece of mathematics Best book to begin differential geometry with.. By Mar on Dec 09, Written by prominent mathematicians it is the one of the best books on the topic. The language of the book is very simple so it is suitable for physics By Jim Curry on Apr 12, Students begin their study of mathematics using coordinate notation exclusively. By the time they get the chance to study differential geometry, it is useful and wise to establish coordinate free notations as much as possible. In doing that, most texts impose an unnecessary roadblock for students. The notation shifts in a way that is abstract and can be confusing. This text is very good because it makes the link from the most elementary to modern thinking, and it does so carefully. It is written in a style that is a little less fashionable now, but it is certainly not out of date or useless. I would not want my library to be without this book, and I use it to get better clarity on a lot of points. I much prefer the more modern language of tensors as multi-linear mappings, compared to the coordinate transformation language used here, but that is not a substantial problem. This book is very good. Add a Book Review Book Summary: Part I and it was written by B. This particular edition is in a Hardcover format. It was published by Springer and has a total of pages in the book. To buy this book at the lowest price, [Click Here](#).

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