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Chapters 11 and 12 are optional. (2) A one-year course on geometry and topology for mathematics students: chapters 2 through 12. Chapter 2 may be omitted if students are familiar with elementary topology. Topics from physics may be omitted without causing serious problems. (3) A single-semester course on geometry and topology: chapters 2 through 7.

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Vector fields are, therefore, derivations on the algebra of smooth functions. Geometry, Topology and Physics I 17 M. Kreuzer / version September 30, 2009 Smooth functions on a manifold form an algebra, because they form a ring (they can be added and multiplied) as well as a vector space over the field \mathbb{R} (linear combinations again are smooth functions).

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Topology and Geometry for Physics H. Eschrig IFW Dresden and Dresden University of Technology Germany

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