# Infinite-Dimensional Manifolds: 1975 Lecture Notes (Paperback)

By Robert Geroch

Minkowski Institute Press, United States, 2013. Paperback. Book Condition: New. 228 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Robert Geroch s lecture notes Infinite-Dimensional Manifolds provide a concise, clear, and helpful introduction to a wide range of subjects, which are essential in mathematical and theoretical physics - Banach spaces, open mapping theorem, splitting, bounded linear mappings, derivatives, mean value theorem, manifolds, mappings of manifolds, scalar and vector fields, tensor products, tensor spaces, natural tensors, tensor fields, tensor bundles, Lie derivatives, integral curves, geometry of Lie derivatives, exterior derivatives, derivative operators, partial differential equations, and Riemannian geometry. Like in his other books, Geroch explains even the most abstract concepts with the help of intuitive examples and many (over 60) figures. Like Geroch s other books, this book too can be used for self-study since each chapter contains examples plus a set of problems given in the Appendix.

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