WEATHERBURN : RIEMANNIAN GEOMETRY

An Introduction to
RIEMANNIAN GEOMETRY
AND THE
TENSOR CALCULUS

By

C. E. WEATHERBURN
M.A., D.Sc.

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An Introduction To Riemannian Geometry And The Tensor Calculus

Thomas J. Willmore

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treating these groups In later chapters we shall encounter nonlinear versions of the methods presented here The third chapter treats the general theory of connections and curvature In the fourth chapter we introduce Jacobi fields prove the Rauch com parison theorems for Jacobi fields and apply these results to geodesics These first four chapters treat the more elementary and basic aspects of the subject Their results will be used in the remaining more advanced chapters that are essentially independent of each other In the fifth chapter we develop Morse theory and apply it to the study of geodesics The sixth chapter treats symmetric spaces as important examples of Rie mannian manifolds in detail

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