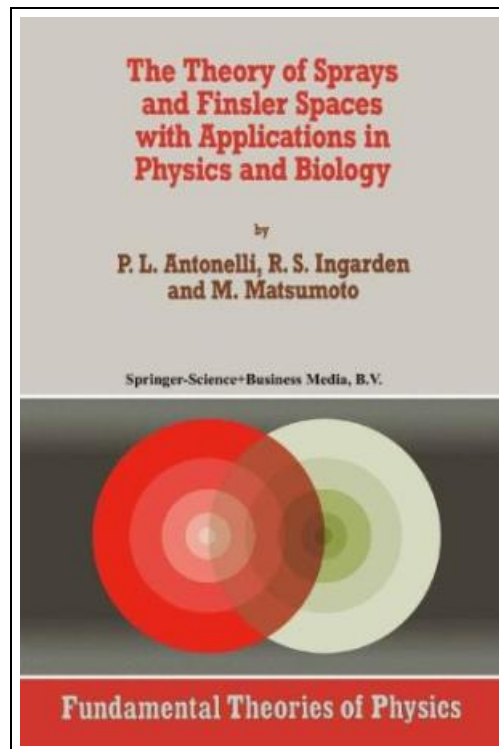# The Theory of Sprays and Finsler Spaces with Applications in Physics and Biology Fundamental Theories of Physics

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Reviews

Definitely one of the better publication I have got possibly read. It really is writter in basic phrases and not difficult to understand. You wont sense monotony at anytime of your respective time (that's what catalogs are for about if you request me).
(Darion Lowe)

THE THEORY OF SPRAYS AND FINSLER SPACES WITH APPLICATIONS IN PHYSICS AND BIOLOGY FUNDAMENTAL THEORIES OF PHYSICS

Springer. Hardcover. Condition: New. 311 pages. Dimensions: 9.6in. x 6.5in. x 1.0in.This volume presents the principles and methods of sprays (path spaces) and Finsler spaces with many applications in the physical and life sciences. The book has six chapters and an extensive reference section. Beginning from the classical theory of sprays, Chapter 0 presents an introduction to modern Finsler differential geometry. The following three chapters can serve as a comprehensive graduate course using the notions of pre-Finsler connections in spray bundles. Topics covered are the calculus of variations and Finsler metric functions, spaces of constant curvature, projective and conformal geometry, two-dimensional Finsler spaces, Beswald spaces, (alpha, beta)-metrics, etc. Chapter 4 deals with the Finslerian view of dissipative mechanics, thermodynamics and information, and geometrical and electron optics. Chapter 5 discusses, from a Finslerian perspective, ecological problems and models, with particular reference to the Great Barrier Reef. Spray connection theory is shown to be indispensable for a logically consistent theory of social interactions. Projective Finsler geometry and Wagner connection theory are used to model time-sequencing changes in growth and development. Some direct applications to fossil measurements in paleontology are also described. For geometers, physicists and theoretical (marine) biologists, the book can also be recommended as a supplementary graduate text. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Hardcover.

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