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**Popular  
Lectures  
on  
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**Wilbur R. LePage**



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nonuniform media static fields in electricity and magnetism and transmission lines and waveguides Other topics include vibrating membranes and acoustics transverse vibrations and buckling of plates stresses and strains in an elastic medium steady state heat conduction in doubly connected regions transient heat transfer in isotropic and anisotropic media and fluid flow Revision of 1991 ed 247 figures 38 tables Appendices **Bicycles & Tricycles** Archibald Sharp, 2013-02-19 Up until the publication of this book in 1896 no comparable work existed on the science design and mechanics of the bicycle an invention that revolutionized transportation for the average person and had far reaching social and economic consequences While other books on the bicycle have been written since this late 19th century classic remains unsurpassed in the thorough accurate and highly accessible coverage of every aspect of bicycle design and construction Over 560 illustrations diagrams figures and tables complement an exhaustive examination of such topics as the development of cycles kinematics stability steering the frame gears stresses mechanical components and much more A marvel of scientific exposition for its time this fascinating treatise will attract a wide audience of readers interested in technology and invention as well as serious and competitive cyclists bicycle designers and collectors

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written most skillful expositions of group theory and its physical applications is directed primarily to advanced undergraduate and graduate students in physics especially quantum physics No knowledge of group theory is assumed but the reader is expected to be familiar with quantum mechanics And while much of the book concerns theory readers will nevertheless find a large number of physical applications in the fields of crystallography molecular theory and atomic and nuclear physics The first seven chapters of the book are concerned with finite groups focusing on the central role of the symmetric group This section concludes with a chapter dealing with the problem of determining group characters as it discusses Young tableaux Yamanouchi symbols and the method of Hund The remaining five chapters discuss continuous groups particularly Lie groups with the final chapter devoted to the ray representation of Lie groups The author Professor Emeritus of Physics at the University of Minnesota has included a generous selection of problems They are inserted throughout the text at the place where they naturally arise making the book ideal for self study as well as for classroom assignment 77 illustrations A very welcome addition to the literature I would warmly recommend the book to all serious students of Group Theory as applied to Physics Contemporary Physics Index Bibliography Problems Tables

**Fundamentals of Scientific Mathematics** George E. Owen, 2012-12-03 Offering undergraduates a solid mathematical background and functioning equally well for independent study this rewarding beautifully illustrated text covers geometry and matrices vector algebra analytic geometry functions and differential and integral calculus 1961 edition **Introduction to Logic** Patrick Suppes, 2012-07-12 Part I of this coherent well organized text deals with formal principles of inference and definition Part II explores elementary intuitive set theory with separate chapters on sets relations and functions Ideal for undergraduates *Hardy Classes and Operator Theory* Marvin Rosenblum, James Rovnyak, 1997-01-01 Concise treatment focuses on theory of shift operators Toeplitz operators and Hardy classes of vector and operator valued functions Topics include general theory of shift operators on a Hilbert space use of lifting theorem to give a unified treatment of interpolation theorems of the Pick Nevanlinna and Loewner types more Appendix Bibliography 1985 edition *The World of Mathematics* James Roy Newman, 2000-01-01 Presents 33 essays on such topics as statistics and the design of experiments group theory the mathematics of infinity the mathematical way of thinking the unreasonableness of mathematics and mathematics as an art A reprint of volume 3 of the four volume edition originally published by Simon and Schuster in 1956 Annotation c Book News Inc Portland OR booknews com *The Development of Chemical Principles* Cooper Harold Langford, Ralph Alonzo Beebe, 1995-01-01 Undergraduate level text focuses on three lines of the development of contemporary chemical structural theory the classical theory of bonding in molecules the ionic interpretation of electrolyte solutions and the physical theory of atomic structure 186 illustrations 1969 edition *Probabilistic Theory of Structures* Isaac Elishakoff, 1999-01-01 Well written introduction covers the elements of the theory of probability from two or more random variables the reliability of such multivariable structures the theory of random function Monte Carlo methods of treating problems incapable of exact

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