



University Physics, Volume 1 (with InfoTrac)

By Reese, Ronald Lane

Brooks Cole, 1999. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. PRELUDES Nature and Mathematics: Physics as Natural Philosophy / Contemporary Physics: Classical and Modern / Standards for Measurement / Units of Convenience and Unit Conversions / The Meaning of the Word Dimension / The Various Meanings of the Equal Sign / Estimation and Order of Magnitude / The Distinction Between Precision and Accuracy / Chapter Summary / Summary of Problem-Solving Tactics / Questions / Problems / Investigative Projects 2. A MATHEMATICAL TOOLBOX: AN INTRODUCTION TO VECTOR ANALYSIS Scalar and Vector Quantities / Multiplication of a Vector by a Scalar / Parallel Transport of Vectors / Vector Addition by Geometric Methods: Tail-to-Tip Method / Determining Whether a Quantity is a Vector / Vector Difference by Geometric Methods / The Scalar Product of Two Vectors / The Cartesian Coordinate System and the Cartesian Unit Vectors / The Cartesian Representation of Any Vector / Multiplication of a Vector Expressed in Cartesian Form by a Scalar / Expressing Vector Addition and Subtraction in Cartesian Form / The Scalar Product of Two Vectors Expressed in Cartesian Form / Determining the Angle Between Two Vectors Expressed in Cartesian...



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