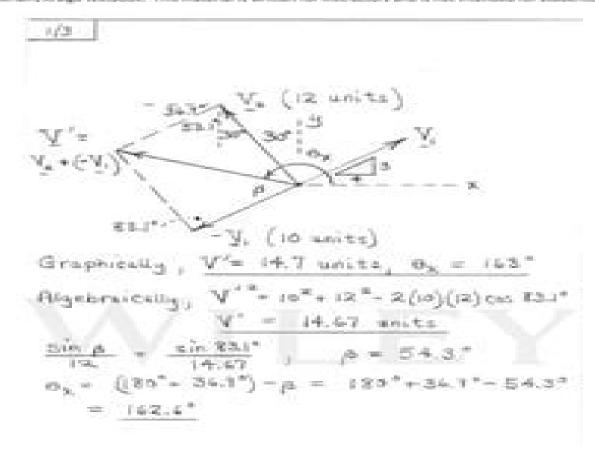
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Mechanics Reviews ,1969 **Engineering Mechanics--statics and Dynamics** R. C. Hibbeler,1995 This best selling book offers a concise and thorough presentation of engineering mechanics theory and application. The material is reinforced with numerous examples to illustrate principles and imaginative well illustrated problems of varying degrees of difficulty The book is committed to developing its users problem solving skills and includes pedagogical features that have made Hibbeler synonymous with excellence in the field Chapter topics cover general principles force vectors equilibrium of a particle force system resultants equilibrium of a rigid body structural analysis internal forces friction center of gravity and centroid moments of inertia virtual work kinematics of a particle kinetics of a particle force and acceleration kinetics of a particle work and energy kinetics of a particle impulse and momentum planar kinematics of a rigid body planar kinetics of a rigid body force and acceleration planar kinetics of a rigid body work and energy planar kinetics of a rigid body impulse and momentum three dimensional kinematics of a rigid body three dimensional kinetics of a rigid body and vibrations For individuals involved in the study of mechanical civil aeronautical engineering **Probabilistic Solutions in Geotechnics** L. Rétháti, 2012-12-02 This is the first monograph to consider the possibility of utilizing probability theory in all essential fields of geotechnics It deals in detail with in situ and laboratory tests the evaluation of soil physical characteristics the preparatory phase and the individual problems of design including load bearing capacity prediction of settlements dimensioning of slopes and retaining walls and guality control of earthworks Numerous possibilities for and examples of the parallel utilization of deterministic and stochastic methods are given in the book creating a connection between conventional and new modern methodologies It demonstrates by examples that the only possibility of meeting technical and economic requirements simultaneously is by using the methods of probability theory. The book also gives an account of new geotechnical and mathematical results of the author post evaluation of settlements and tilts plotting of statistical bore profiles elimination of the asymmetry of distribution by transformation etc The book enables practitioners and to acquire new modern design methods and research to develop methods It will also be useful for undergraduate and postgraduate training

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