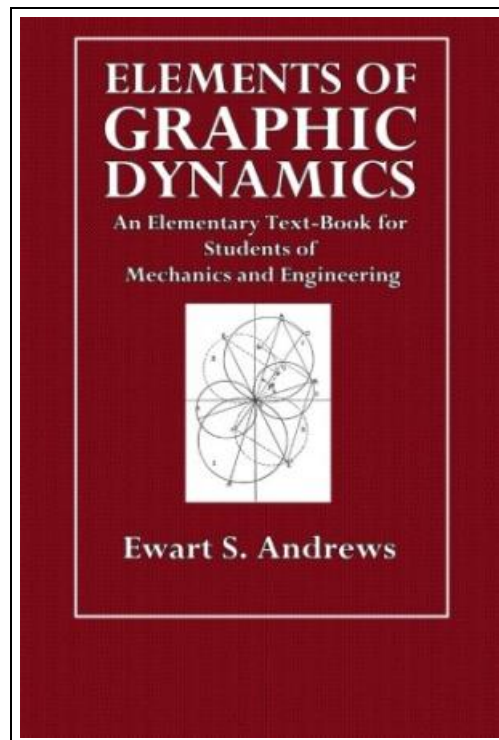


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ELEMENTS OF GRAPHIC DYNAMICS: AN ELEMENTARY TEXT-BOOK FOR STUDENTS OF MECHANICS AND ENGINEERING



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Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.From the PREFACE. GRAPHIC methods have been successfully applied for very many years for the DEGREES., solution of mechanical problems, particularly those arising in engineering, and nearly all students of mechanics prefer the graphic methods to those based upon mathematical analysis. The reason is that argument based upon algebraic symbols does not give to most minds such a clear conception as that based upon diagrams; we believe that in all walks of life the diagram method of appeal to the mind (i.e. by pictures) is the most effective. The champions of the mathematical method of argument have in the past laid great stress upon its value in the development of reasoning powers, suggesting that such reasoning is absent in the graphic method. Although this may be true in cases in which graphic: methods are taught merely as mechanical processes, it is certainly not necessarily true. The application of graphic methods to the problems arising in structural engineering has been very fully developed under the name of Graphic Statics, but comparatively little attempt appears to be made in our schools and universities to develop the dynamic problems arising in mechanical engineering with the same logical sequence, the graphic constructions employed usually being introduced in a rather random manner. In the present book, which we call Elements of Graphic Dynamics, we have attempted to present the laws of elementary dynamics with particular reference to engineering problems in a manner analogous to that employed in Graphic Statics. We wish to lay particular stress upon the fact that by studying the subject from the graphic standpoint we are not forced to employ in our calculations graphic methods when numerical substitution in a...



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