

Mechanics Of Machines Elementary

Mechanics of machines: elementary theory and examples, by J. Hannah and R.C.

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preparation of the work for the press has extended over a considerable period, and has been subject to many interruptions. There is therefore not always the unity desirable in a scientific treatise; nor is it by any means complete, even when due account is taken of the stringent limitations explained in the Introduction. It is, however, hoped that these deficiencies may be partly compensated for by the fact that the book is the product, of a great deal of experience in teaching the subject, and a great deal of consideration as to the matter which ought to find a place in a general elementary treatise. Nearly the whole has been delivered in the form of lectures, and some part has actually been printed from notes taken throughout one session by a member of the junior class at that time, which were afterwards transcribed for the press by my assistant. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at

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For engineering students in the first year of a degree or diploma course.

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Excerpt from Theory of Machines: Including the Principles of Mechanism and Elementary Mechanics of Machinery In the making of machines. However. It is necessary to know the effect of changing the length and position of a link. For example. The effect of lengthening the connecting rod of a steam engine and of off-setting the cylinder. Again the effect of changing the shapes of gear teeth and also the determination of the correct shape are matters of the greatest importance. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at

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Excerpt from *The Theory of Machines: The Principles of Mechanism; Elementary Mechanics of Machines* The present treatise dealing with the Principles of Mechanism and Mechanics of Machinery is the result of a number of years' experience in teaching the subjects and in practising engineering, and endeavors to deal with problems of fairly common occurrence. It is intended to cover the needs of the beginner in the study of the Science of

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machinery, and also to take up a number of the advanced problems in mechanics. As the engineer uses the drafting board very freely in the solution of his problems, the author has devised graphical Solutions throughout, and only in a very few instances has he used formula involving anything more than elementary trigonometry and algebra. The two or three cases involving the calculus may be omitted without detracting much from the usefulness of the book. The reader must remember that the book does not deal with machine design, and as the drawings have been made for the Special purpose of illustrating the principles under discussion, the mechanical details have frequently been omitted, and in certain cases the proportions somewhat modified so as to make the constructions employed clearer. The photograph or motion diagram has been introduced in Chapter IV, and appeared in the first edition for the first time in print. It has been very freely used throughout, so that most of the Solutions are new, and experience has shown that results are more easily obtained in this way than by the usual methods. As the second part of the book is much more difficult than the first, it is recommended that in teaching the subject most of the first part be given to students in the sophomore year, all of the second part and possibly some of the first part being assigned in the junior year. The thanks of the author are due to Mr. J. H. Parkin for his careful work on

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