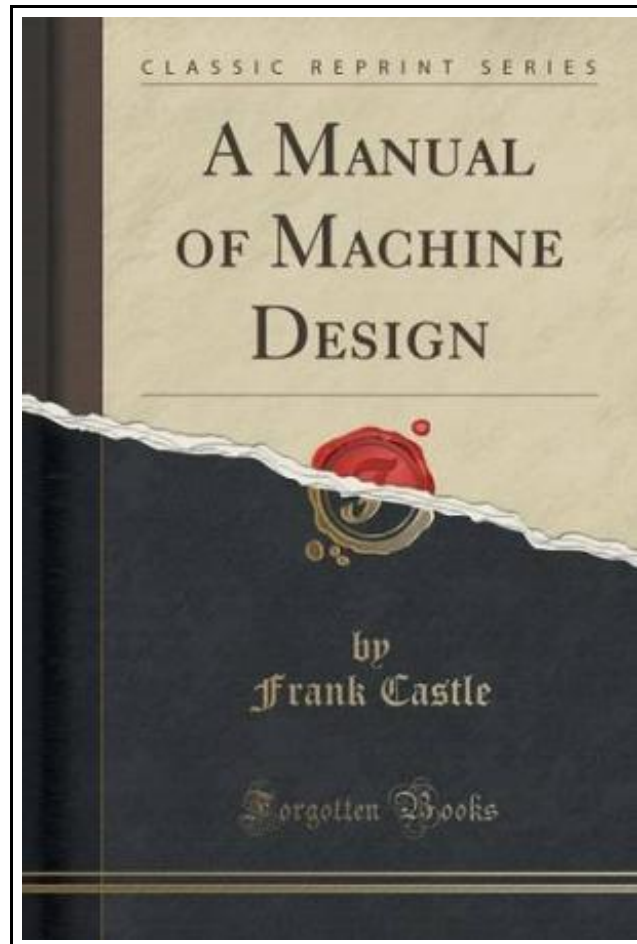


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Manual of Machine Design In a recent Memorandum on the Teaching of Engineering in Evening Technical Schools, the Board of Education, in the sections dealing with Engineering Drawing, directs the attention of teachers and students to the great importance of Machine Design. During the student s First Year s Course, the memorandum points out, the weights of objects of simple design should be estimated; also, it is useful, wherever possible, to introduce simple numerical exercises. Simple designs, for example, such as a mild steel eye bolt to carry a snatch block might be set; or the student might determine the diameter of two long bolts to be used with a 20-ton hydraulic jack to pull a flywheel off a shaft; or determine the diameter of the four bolts supporting the top crosshead of a hydraulic press. In the second year, students might design a cotter connection for a steel tie bar; estimate the strength of bolts in flanges and cylinder covers; find the stresses in cotters connecting crossheads to piston rods, and so on. If the student is also studying Practical Mathematics, the sizes and proportions of the machine details he is drawing afford excellent scope for exercises. Thus, with given data he can find the probable stresses in the various parts; later, he can proceed to carry out the design of some important machine detail or some machine, such as a winch, or a crane. He can also make working drawings to suitable scales when all the dimensions are obtained. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of...

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