



## A Manual of Machine Design (Classic Reprint)

By Frank Castle

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....



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