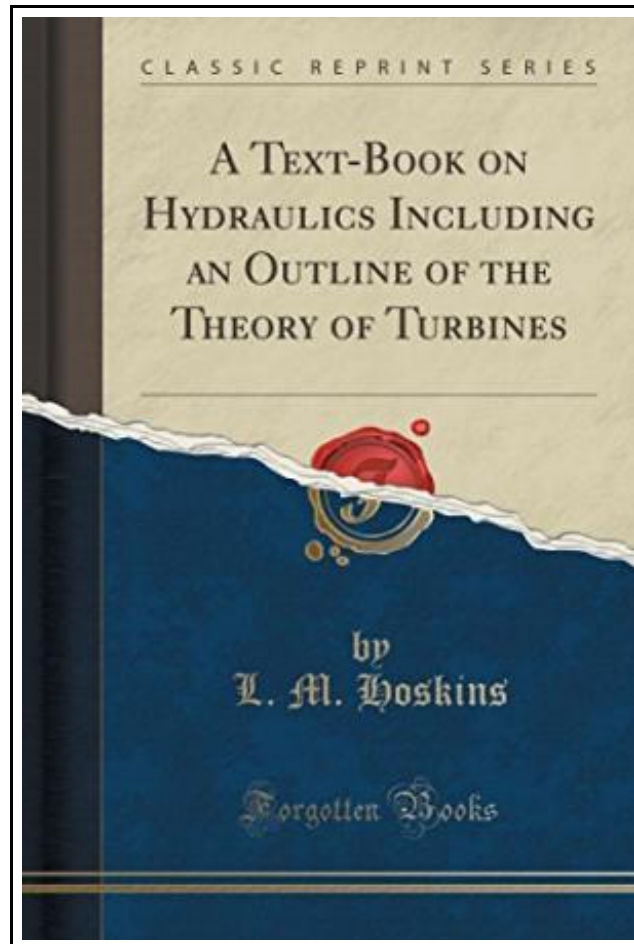


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Text-Book on Hydraulics Including an Outline of the Theory of Turbines This book is designed primarily for the use of students of engineering in universities and technical colleges. In its preparation the aim has been to present fundamental principles in a manner both sound and as simple as possible. The treatment presupposes a good elementary knowledge of the principles of mechanics, and a working knowledge of the elements of calculus; but to the student thus equipped, who is also well trained in arithmetic, algebra and trigonometry, it presents little mathematical difficulty. Many numerical examples are introduced, the complete solution of which should form an important part of the work of the student. It is perhaps not too much to say that the key to a correct understanding of all problems in the steady flow of liquids is supplied by Bernoulli's theorem, - or, as it is usually called in the text, the general equation of energy. Familiarity with this principle is therefore much more important than a memory-knowledge of special rules, and for this reason the explanations of particular cases of flow have in most cases been based directly upon the fundamental equation. The meaning and importance of the term representing lost energy in this equation have also been emphasized. The corresponding theory applied to gases is given in Appendix A. In the presentation of working rules for estimating flow in the various practical cases met by the engineer it has been aimed in every case to give a clear statement of the rational basis of the formula adopted, and also to make clear to what extent the theory is defective and the...



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