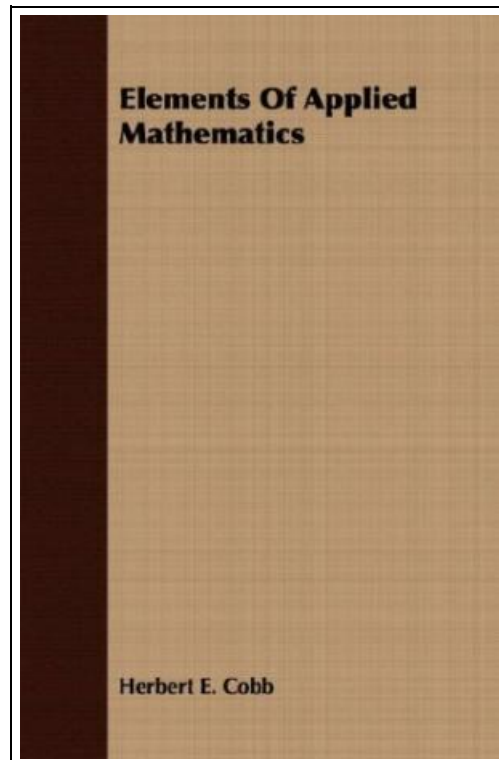


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Benson Press. Paperback. Condition: New. 288 pages. Dimensions: 8.5in. x 5.5in. x 0.7in. ELEMENTS OF APPLIED MATHEMATICS BY HERBERT E. COBB. 1911. PREFACE This book of problems is the result of four years experimentation in the endeavor to make the instruction in mathematics of real service in the training of pupils for their future work. There is at the present time a widespread belief among teachers that the formal, abstract, and purely theoretical portions of algebra and geometry have been unduly emphasized. More over, it has been felt that mathematics is not a series of discrete subjects, each in turn to be studied and dropped without reference to the others or to the mathematical problems that arise in the shops and laboratories. Hence we have attempted to relate arithmetic, algebra, geometry, and trigonometry closely to each other, and to connect all our mathematics with the work in the shops and laboratories. This has been done largely by lists of problems based on the preceding work in mathematics and on the work in the shops and laboratories, and by simple experiments and exercises in the mathematics classrooms, where the pupil by measuring and weighing secures his own data for numerical computations and geometrical constructions. In high schools where it is possible for the teachers to depart from traditional methods, although they must hold to a year of algebra and a year of geometry, this book of problems can be used to make a beginning in the unification of mathematics, and to make a test of work in applied problems. In the first year in algebra-the problems in Chapters I - VII can be used to replace much of the abstract, formal, and lifeless material of the ordinary course. These problems afford a much needed drill in arithmetical computation, prepare the way...



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