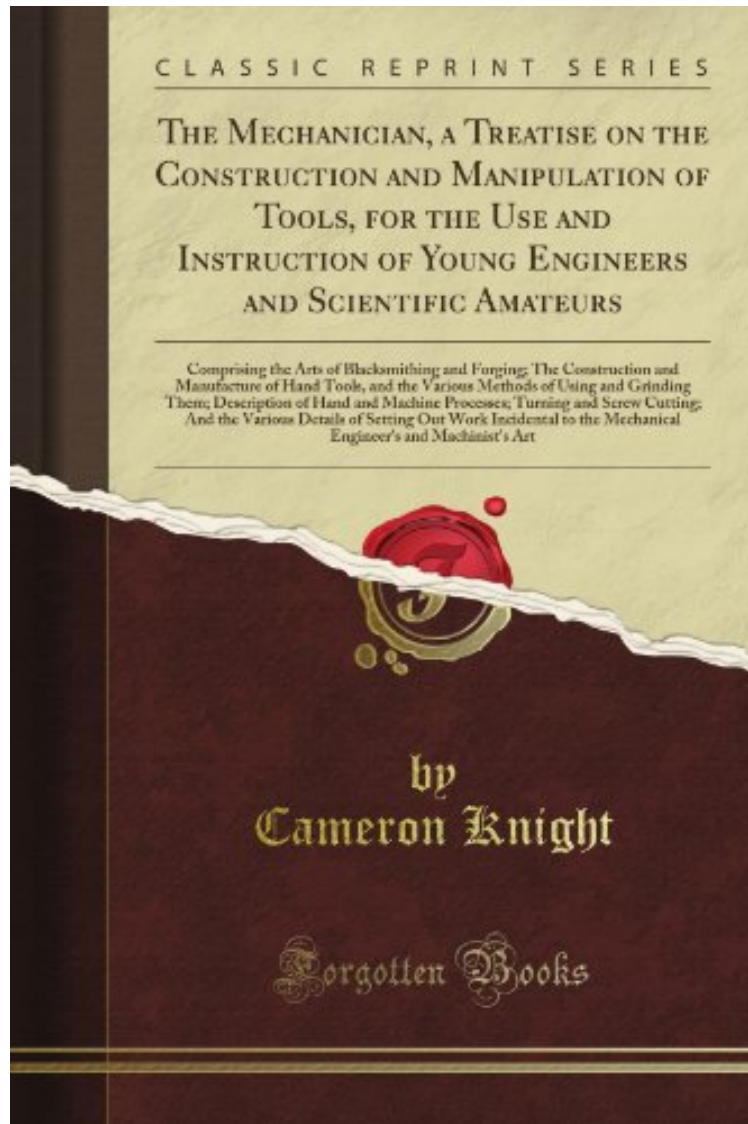


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The Mechanician, a Treatise on the Construction and Manipulation of Tools, for the Use and Instruction of Young Engineers and Scientific Amateurs (Classic Reprint)

Cameron Knight

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Manipulation of Tools, for the Use and Instruction of Young Engineers and Scientific Amateurs (Classic Reprint):

1 of 1 people found the following review helpful. And once again, the illustrations are missing. By Rick Cook Why the store keeps offering these crippled editions is beyond me. The illustrations that were obviously so important to the original edition are completely missing. Especially in a book on making and using tools the result is fatal. You can still glean some good stuff from the text, but your comprehension will be severely limited. 0 of 0 people found the following review helpful. Five Stars By Mindy Victorson:)

Mechanician is essentially a book of processes, including all operations by which the principal portions of engines are forged, planed, lined, turned, and otherwise treated. The author endeavours to perform two things to explain to uninitiated students how engines are really made, together with the fundamental principles involved in making them, and also to produce a book which shall be useful to practical mechanics for reference in the difficult details of their business. Of the six chapters constituting the work, the first is devoted to forging; in which the fundamental principles to be observed in making forged articles of every class are stated, giving the proper relative positions for the constituent fibres of each article, the modes of selecting proper quantities of material, the steam-hammer operations, the shaping-moulds, and the manipulations resorted to for shaping the component masses to the intended forms; Engineers tools and their construction are next treated, because they must be used during all subsequent operations described in the remaining chapters; the author thinking that the student should first acquire a knowledge of the apparatus which he is supposed to be using in the course of the processes given in Chapters 4, 5, and 6. In the fourth chapter, planing and lining are treated, because these are the elements of machine-making in general. The processes described in this chapter, are those on which all accuracy of fitting and finishing depend. The next chapter, which treats of shaping and slotting, the author endeavours to render comprehensive by giving the hand-shaping processes in addition to the machine-shaping. In many cases, hand-shaping is indispensable, such as, sudden breakage, operations abroad, and on board ship, also for constructors having a limited number of machines. Turning and screw-cutting occupy the last chapter. In thi (Typographical errors above are due to OCR software and don't occur in the book.)