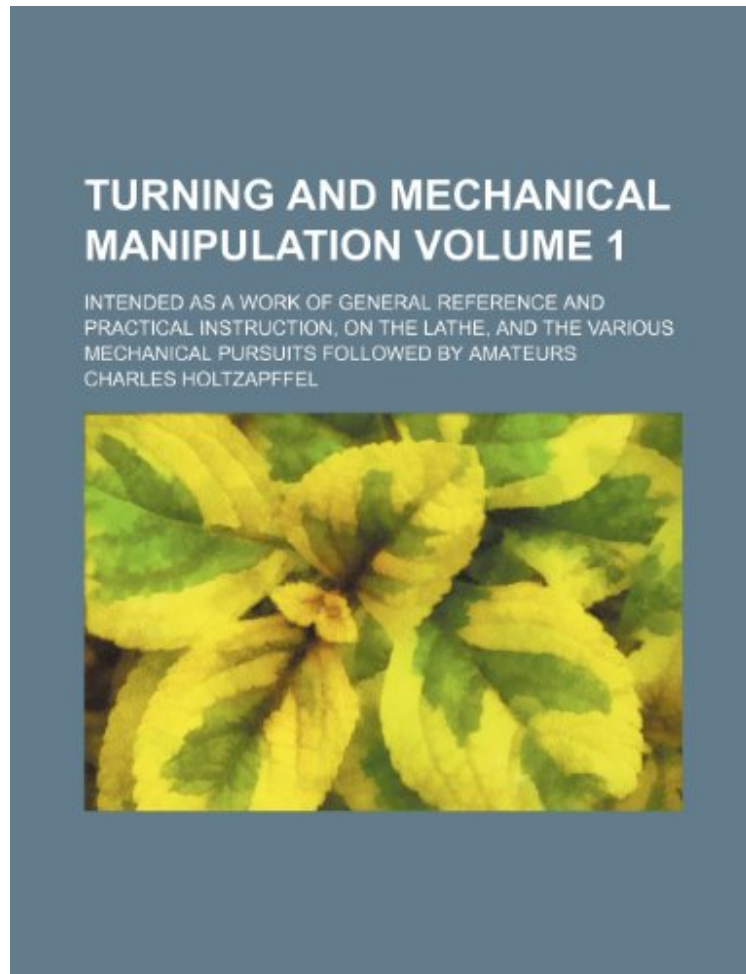


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## **Turning and mechanical manipulation Volume 1; Intended as a work of general reference and practical instruction, on the lathe, and the various mechanical pursuits followed by amateurs**

*Charles Holtzapffel*

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1846 Excerpt: ...Damascus barrels are made from a mixture of stub-nails and clippings of steel in given proportions, puddled together, made into a bloom, and subsequently passed through all the stages of the manufacture of iron already explained; to obtain an iron that shall be of unequal quality and hardness, and therefore display different colours and markings when oxidized or browned. Other twisted barrels are made in the like manner, except that the bars to form the ribands are twisted whilst red-hot like ropes, some to the right others to the left, and which are sometimes again laminated together for greater diversity; they are subsequently again drawn into the ribands and wound upon the mandrel, and frequently two or three differently prepared pieces are placed side by side to form the complex and ornamental figures for the barrels of fowling-pieces, described as " stub-twist, wire-twist, Damascus-twist" c., which processes are minutely explained and figured by Mr. Greener. All these matters are also explained in Mr. Wilkinson's recent and interesting work, which likewise treats of one method amongst others of the formation of the Damascus gun barrels; by arranging twenty-five thin bars of iron and mild steel in alternate layers, welding the whole together, drawing it down small, twisting it like a rope, and again welding three such ropes, for the formation of the riband which is then spirally twisted to form a barrel, that exhibits, when finished and acted upon by acids, a diversified laminated structure, resembling when properly managed an ostrich feather. Let me now turn from these engines of destruction to a modification of one of them to a happier purpose. When the illumination by gas was first introduced in the large way, by Aaron Manby, Esq., th...