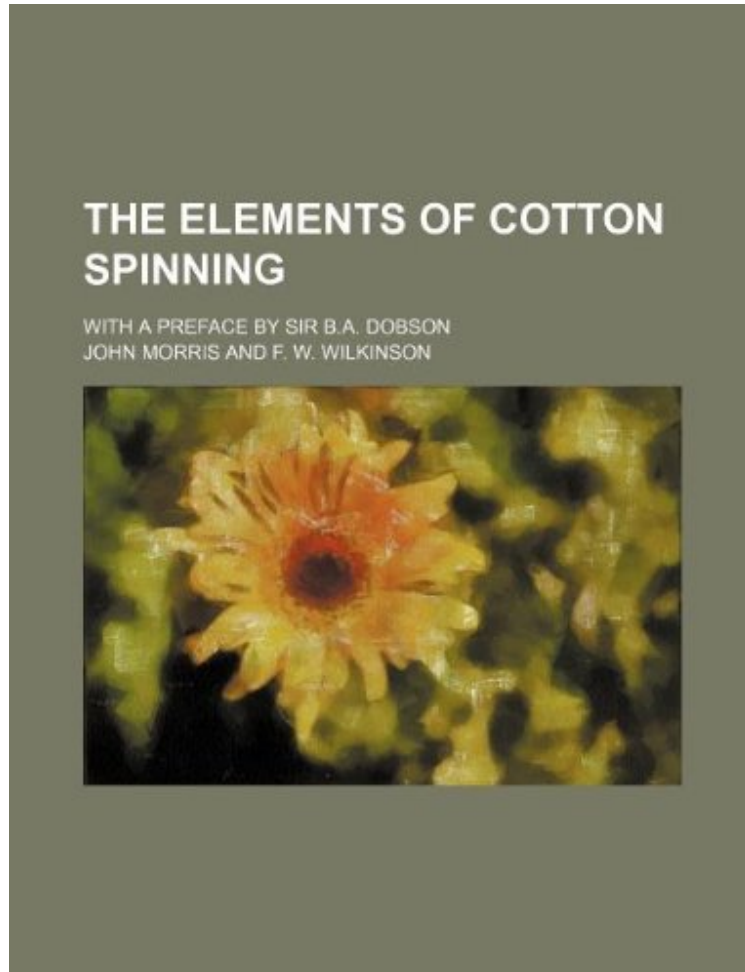


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The elements of cotton spinning; with a preface by Sir B.A. Dobson

John Morris

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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. 1897 Excerpt: ...to be wound on being also uniform. As the size of the cops increases, an increasing amount of yarn would be taken up in each succeeding revolution of the spindlesif the latter preserved a constant speed. The velocity of the spindles must therefore be slowed as the cop is built, in order to avoid breaking the thread. This reduction of speed will of course be greatest at the beginning of the set, and when the full thickness of the cop is once attained a state of permanency begins, which,

with the exception of a small allowance for the taper of the spindle, will act until the nose of the cop commences to form, when the lessening diameter necessitates a speeding up. The quadrant operates as shown in fig. 115. It turns on a fixed centre A, and its toothed edge--representing the quadrant of a circle--is driven by a pinion B actuated through a band and grooved pulley receiving motion from the traverse of the carriage. The arm of the quadrant is grooved and contains a screw with sliding nut A1. The nut is traversed along the screw by means of a quadrant governing motion, to be described later, and it is evident that by thus altering the position of the nut the length of the chain attached to it will represent a greater or smaller distance from A1 to the windingon drum. At the commencement of the cops the nut A1 is in its lowest position close to A, so that the point at which the chain is linked to A1 describes a very small arc round the centre A. If we suppose this movement to be nothing, or, in other words, that A1 remains stationary, a length of chain equal to the traverse of the carriage--say 64"--is wound on the drum A2, which is 6' ' diameter. If we now suppose the nut to be in the highest position it can attain, the point A1 will be almost vertically o...