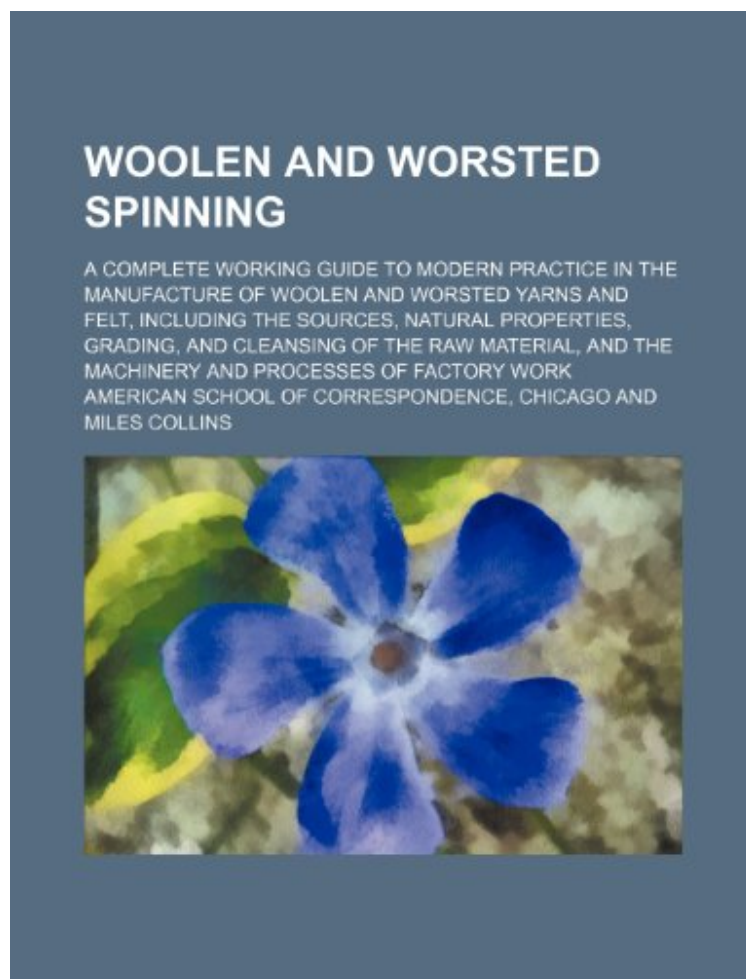


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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1909 edition. Excerpt: ...and makes necessary the use of two upright shafts RR, and the train of gears connected with them. With pulleys running at a speed of 190 revolutions per minute the speed of the circle would be approximately one revolution per minute. $190 \times 28 \times 15 \times 20 \times 20 \times 17 \times 340 \times 60 \times 20 \times 38 \times 35 \times 347 = 347$ The diameter of the circle being forty-eight inches the actual speed of the circle would be: $340 \times 48 \times 3 \times 3 =$ which equals approximately 148 inches per minute. The fallers, nip, and carrying comb are all geared together by equal sized gears so that their motion is positive and they all move in unison. They are driven by a belt from the pulley Y, of fourteen inches diameter, to the pulley U which is ten inches in diameter. To find the number of fallers dropped, and oscillations of nip and carrying comb, per minute: $190 \times 28 \times 14 \times 10241 \times 00 \times 10 \times 72 = 270$ which equals approximately 38. As the pitch of the top screw is f-inch the speed at which the fallers travel would be $38 \times f$ which equals approximately twentyfour inches per minute. The amount of wool passing through the feed rolls would be: $10241 \times 20 \times 13 \times 11 \times 00, \dots - 270 \times 60 \times 80 \times A$ So it will be seen that there is practically no draft between the back rolls and the fallers. The output of the front or drawing off rolls E would be: $100 \times 28 \times 6 \dots$ 50 mches per mmute. which gives the comb a draft of $24T7r \ 557-f-22iV-24-V$ Note: Circumference of fluted feed rolls. The above calculations show that the circle makes approximately one revolution per minute, which gives a surface traverse of one hundred forty-eight inches per minute to the pins of the circle; while the nip and carrying comb will deliver to the circle thirty-eight fringes of wool, each sixteen inches wide, per minute. Each fringe of wool...