



## Cotton Mill Processes and Calculations An Elementary Text Book for the Use of Textile Schools and for Home Study

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By Daniel Augustus Tompkins

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 70 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. 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. 1899 Excerpt: . . . calculation on twist, or to quickly find out the twist on any given frame, is to find out revolutions of spindle per minute by actual count; find out revolutions of front roll by actual count; multiply this count by circumference of front roll to get inches per minute; divide revolutions of spindle by inches of yarn. The result is twist per inch T 180. The speed of a spinning frame is designated by speed of front roll. When this is given--say 100--the speed to run driving pulley is obtained by considering the front roll as the driver, and writing the formula:  $100 \times 112 \times 90 \div 28 \times 30$  This works out 1200. With a given front roll speed, the tin cylinder (and driving pulley) speed will vary with the twist gear, the larger the twist gear the slower the pulley speed necessary. Product 10n. 181. Speed of...



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