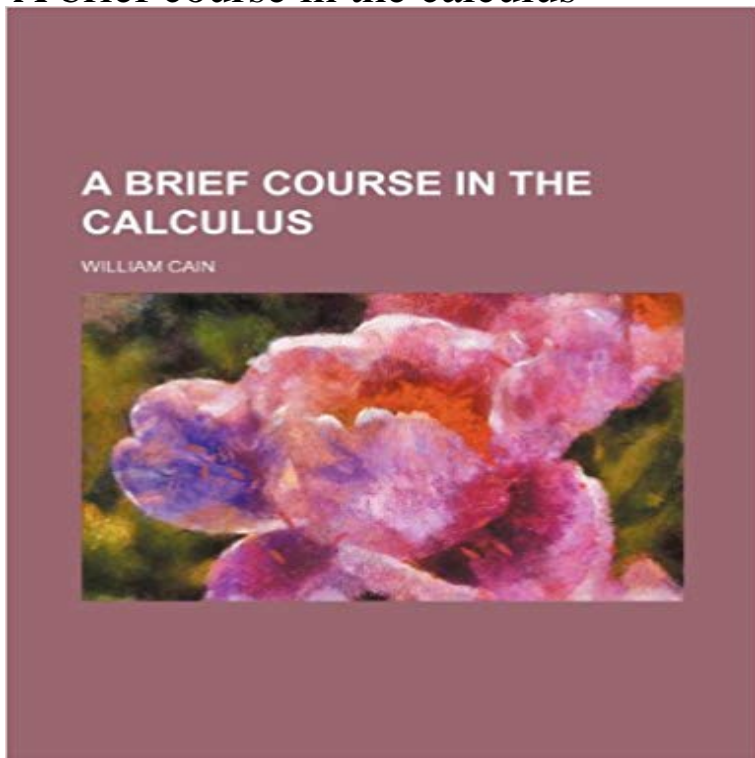


# A brief course in the calculus



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. 1905 Excerpt: ... approaches as  $A / = 0$  or ---, is called the velocity of the point at the end of the time  $t$ . If the rate is uniform  $x/t = A$   $x/A$   $t$  is constant,.  $A \times dx$ .:  $11m = -A0A/ dt$  is constant and represents the rate here as well as in the case of variable motion. The velocity of the point  $P$  at any instant, is called the angular velocity of the supposed body at the instant. It is the velocity with which a point at a units distance from the axis moves for uniform rate or tends to move at any instant for non-uniform rate, and its value, in any case,.  $dx$   $1s$   $dt$  Let us now discuss the case of motion presented by the crank, connecting rod and slide. In Fig. 37,  $C$   $P$  of length  $r$ , is the crank,  $P$  the crank pin,  $PQ$  of length  $l$ , the connecting rod, and  $Q$  the slide (attached to the piston) which moves in the direction of the center  $C$ . The point  $P$  of course moves in a circle. When  $P$  is at  $A$ ,  $Q$  is at  $D$ , $\therefore AD = l$ . Let  $QD = s$ . Call  $\theta$  the angle  $A CP$  expressed in circular measure. We have,  $s = r(1 - \cos \theta) + l \sqrt{1 - (x-y/x)^2}$ . This formula is exact, but a little too complicated for practical use, so an approximation is resorted to. The term  $s$  is generally quite small, so that if we develop the radical expression to two terms only by the binomial formula giving, To get the velocity of the slide  $Q$ , we differentiate this with respect to  $t$ .  $ds/dt$  It As we have just seen,  $d\theta/dt$  is the angular velocity or the velocity of a point on  $CP$  at a units distance from  $C$ . Call it  $\omega$  and assume it to be constant, so that  $P$  moves with the constant rate  $\omega r$ . The speed of  $Q$  by (2) is zero at  $\theta = 0$  and  $\theta = \pi$  or at the dead points  $A$  and  $B$ . The time-rate of change of the speed of  $Q$  is called its acceleration. Its value is,  $d^2s/dt^2 = -\omega^2 r \cos \theta - \omega^2 l \frac{x-y}{x^2}$  (3) What are the accelerations of  $Q$  at  $\theta = 0, \pi, \pi/2, 3\pi/2$ ? The forces

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