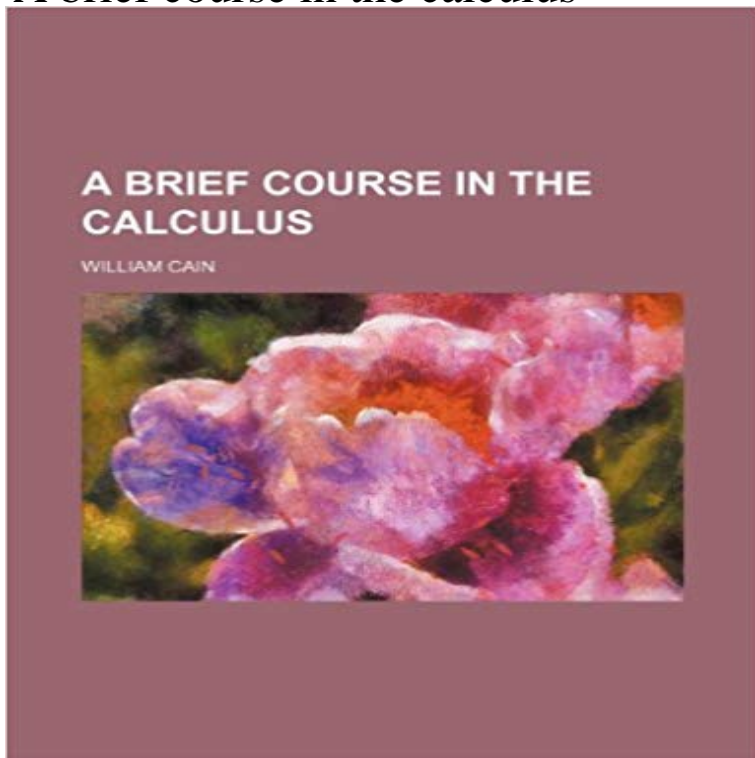


A brief course in the calculus



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 θ the angle A CP expressed in circular measure. We have, $\therefore J-r (1-\cos \theta) + I (x-y/x _ H$. This formula is exact, but a little too complicated for practical use, so an approximation is resorted to. The term a 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 It As we have just seen, ω is the angular velocity or the velocity of a point on CP at a units distance from C . Call it ω and assume it to be constant, so that P moves with the constant rate to 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, $l(\omega)^2 = H+7cH^2--(3)$ What are the accelerations of Q at $\theta = 0$, π , $\pi/2$, $3\pi/2$?

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