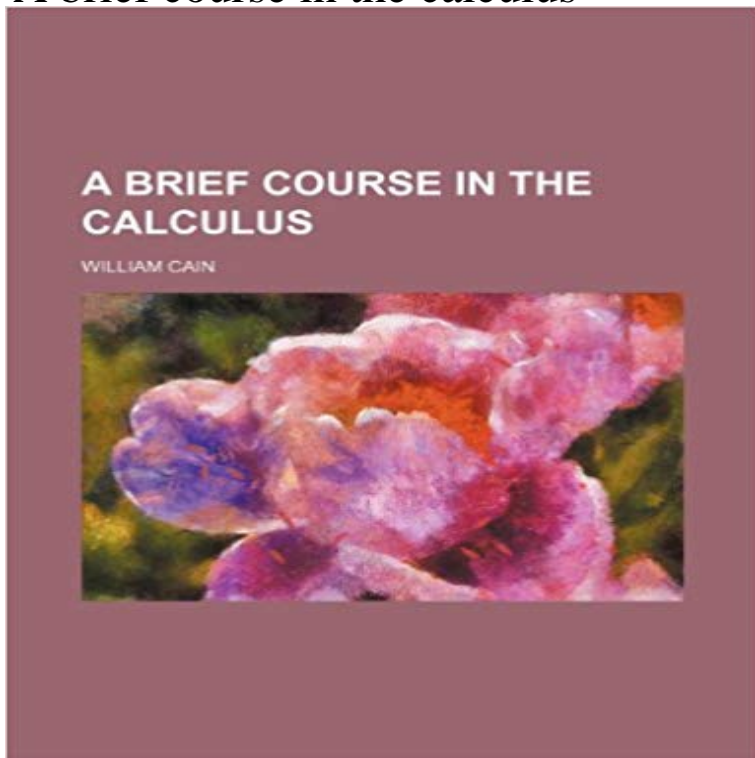# A brief course in the calculus

A BRIEF COURSE IN THE CALCULUS

WILLIAM CAIN

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 / = o 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 x 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, CJP of length r, is the crank, Pthe. crank pin, PQ of length /, 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,:. AD = /. Let QD = s. Call 8 the angle A CP expressed in circular measure. We have,.-. J-r (1-cos 6) + 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,--is the angular velocity or the velocity of a point on CP at a units distance from C. Call it 0) 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 0 = o and 0 = ir 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()=H+7cH2--(3) What are the accelerations of Q at 0 = o,-, ir? The forces

acting on t...

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