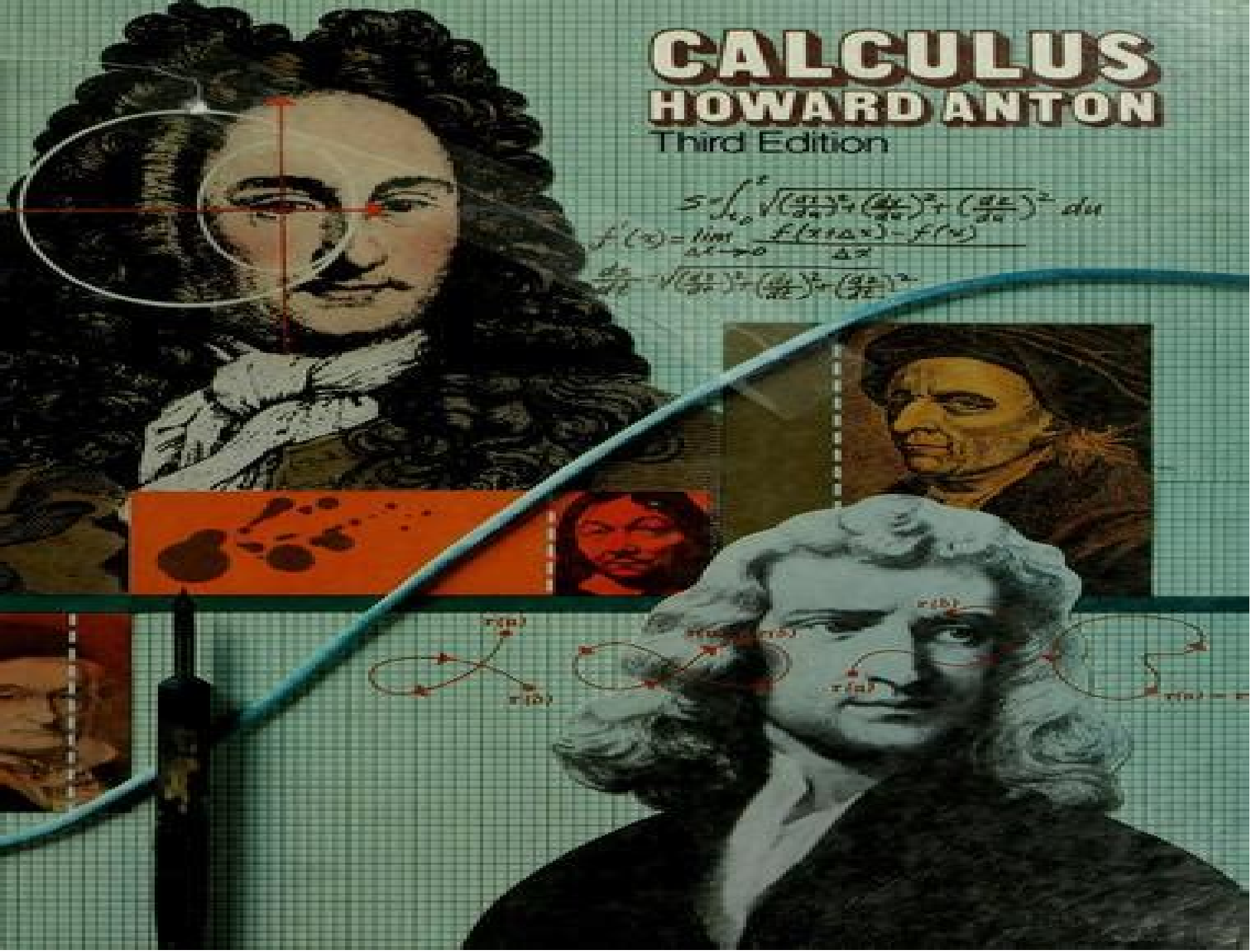


CALCULUS

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Third Edition

$$s = \int_{a,b}^c \sqrt{\left(\frac{dx}{du}\right)^2 + \left(\frac{dy}{du}\right)^2 + \left(\frac{dz}{du}\right)^2} du$$
$$f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x) - f(x)}{\Delta x}$$
$$\frac{ds}{dt} = \sqrt{\left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2 + \left(\frac{dz}{dt}\right)^2}$$



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short but rigorous book approaches the main ideas of linear algebra through carefully selected examples and relevant applications It is intended for students with various interests in mathematics as well as established scientists seeking to refresh their basic mathematical culture The book is also a good introduction to functional analysis and quantum theory since it discusses the general principles of linear algebra without finiteness assumptions **Catalog of Copyright Entries.**

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