SECOND EDITION

# MATHEMATICA for THEORETICAL PHYSICS

Classical Mechanics and Nonlinear Dynamics  $\frac{\mathrm{d}f(x)}{\delta x_{i+1}} = \left(\frac{\mathrm{d}f(x)}{\mathrm{d}x}\right)_{x=1}$ GERD BAUMANN  $\left(\frac{\partial F_i}{\partial x_j}\right)_{q=q_i}$   $= 1 + (\Delta t)^2 \left(\frac{\partial F_i}{\partial q}\right)_q$   $= 1 + (\Delta t)^2 \left(\frac{\partial F_i}{\partial q}\right)_q$ 





**Hussin A.Rothana** 

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