
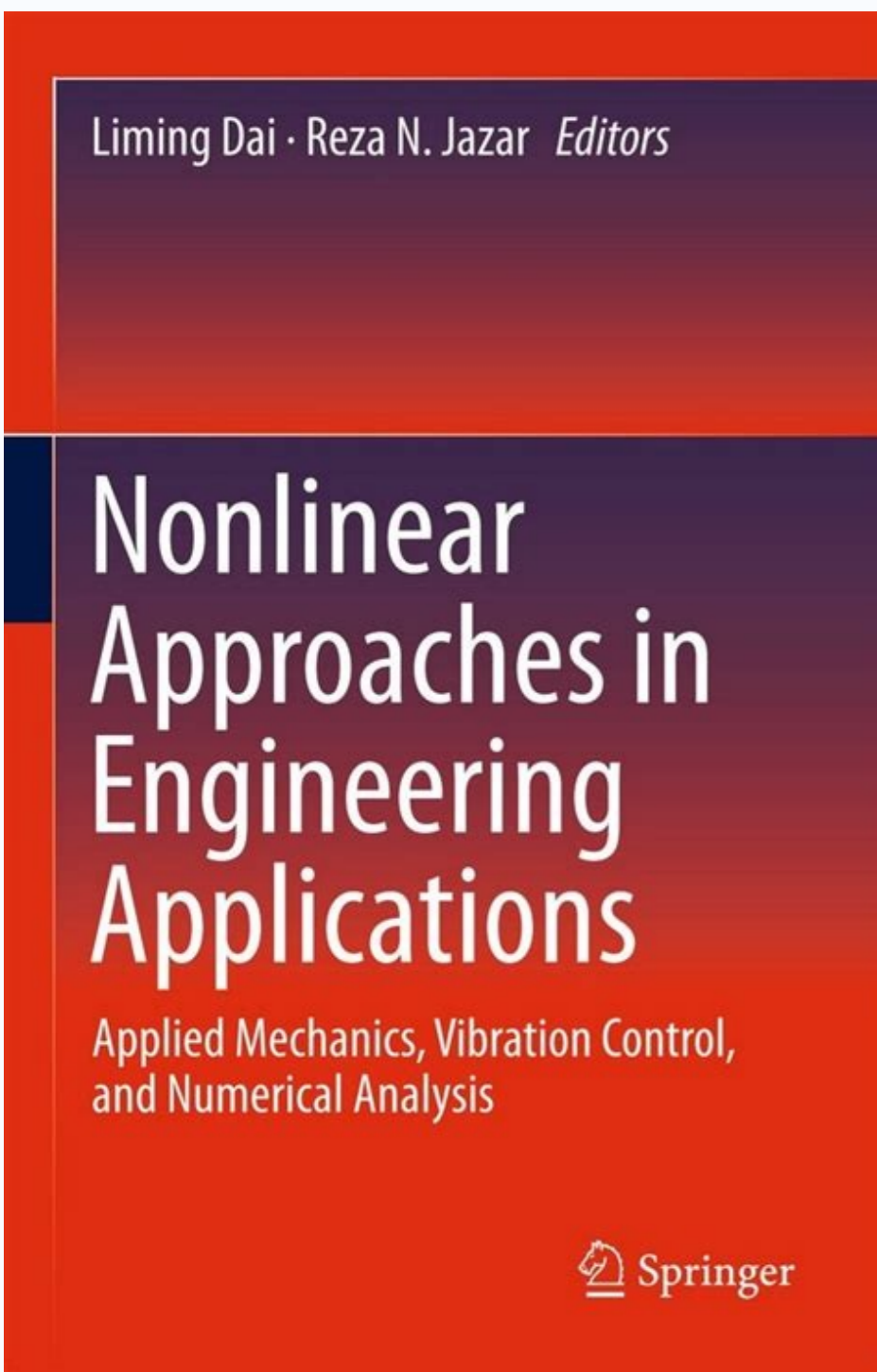
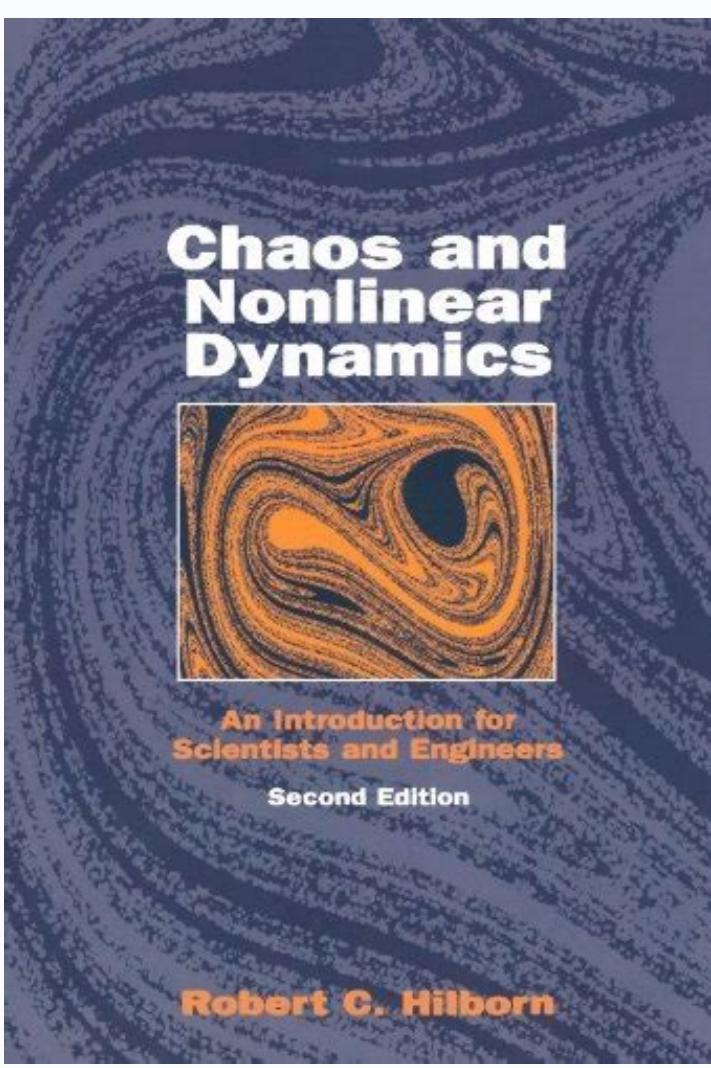


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Chapter 1

• 1.1 Let  $x_1 = y, x_2 = y^{(1)}, \dots, x_n = y^{(n-1)}$ .

$$\begin{aligned} \dot{x}_1 &= x_2 \\ &\vdots \\ \dot{x}_{n-1} &= x_n \\ \dot{x}_n &= f(t, x_1, \dots, x_n, u) \\ y &= x_1 \end{aligned}$$

• 1.2 Let  $x_1 = y, x_2 = y^{(1)}, \dots, x_{n-1} = y^{(n-2)}, x_n = y^{(n-1)} - p(t, y, y^{(1)}, \dots, y^{(n-2)})u$ .

$$\begin{aligned} \dot{x}_1 &= x_2 \\ &\vdots \\ \dot{x}_{n-1} &= x_n \\ \dot{x}_n &= y^{(n)} - p(t, x_1, x_2, \dots, x_{n-1})u \\ &= y^{(n)} - p(t, x_1, \dots, x_{n-1})u - \left( \frac{\partial p}{\partial t} x_1 + \dots + \frac{\partial p}{\partial x_{n-1}} x_{n-1} \right) u \\ &= p(t, x_1, \dots, x_{n-1}, x_n + p(t, x_1, \dots, x_{n-1})u) \\ &\quad - \left( \frac{\partial p}{\partial t} x_1 + \dots + \frac{\partial p}{\partial x_{n-1}} x_{n-1} \right) u \\ y &= x_1 \end{aligned}$$

• 1.3 Let  $x_1 = y, x_2 = y^{(1)}, \dots, x_n = y^{(n-1)}, x_{n+1} = x, \dots, x_{2n+1} = x^{(n-1)}$ .

$$\begin{aligned} \dot{x}_1 &= x_2 \\ &\vdots \\ \dot{x}_{n-1} &= x_n \\ \dot{x}_n &= p(t, x_1, x_2, \dots, x_n, u) \\ \dot{x}_{n+1} &= x_{n+2} \\ &\vdots \\ \dot{x}_{2n-1} &= x_{2n} \\ \dot{x}_{2n} &= u \\ y &= x_1 \end{aligned}$$

# Molecular Driving Forces

Statistical Thermodynamics in Biology, Chemistry, Physics, and Nanoscience

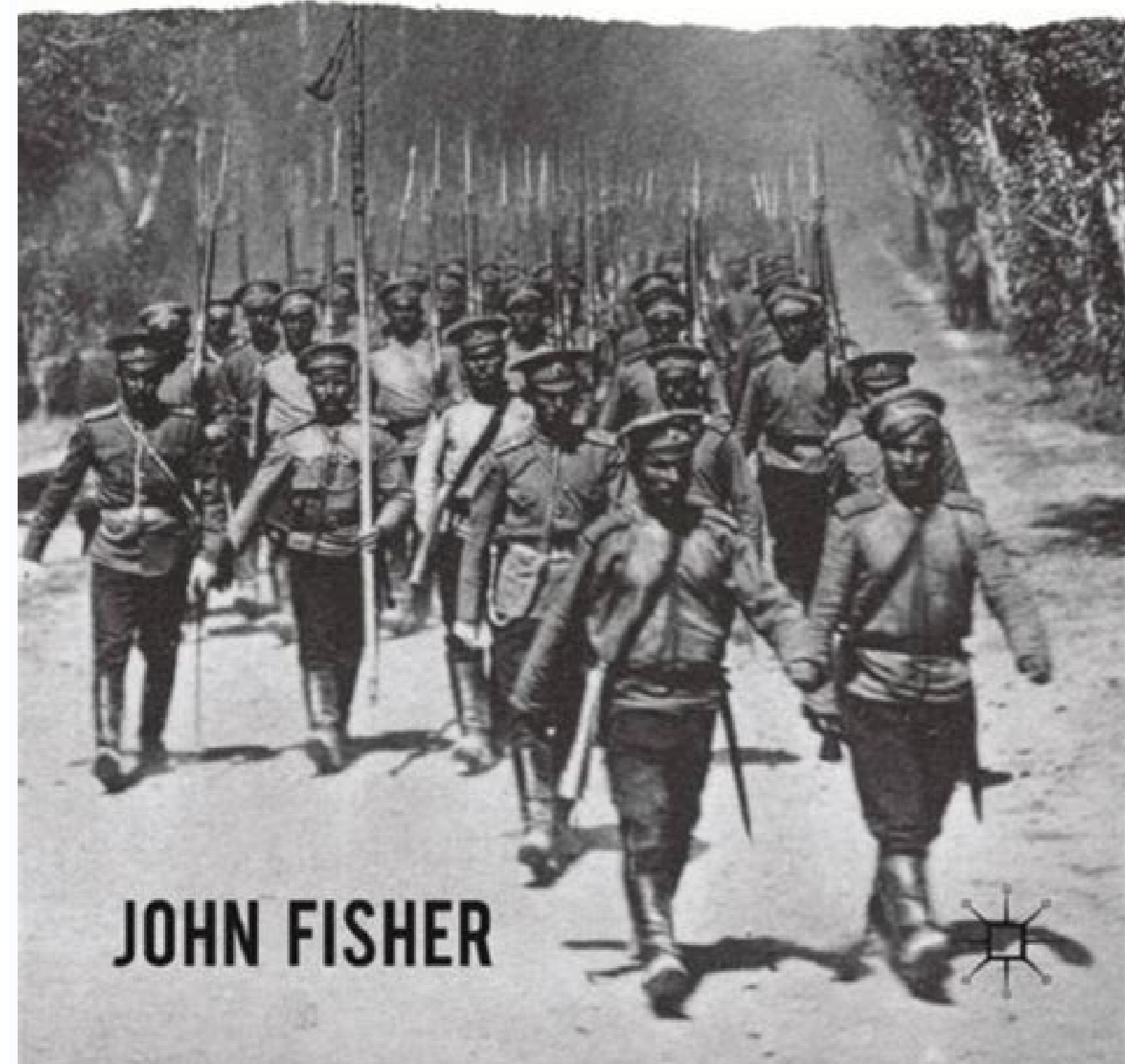
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JOHN FISHER

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