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Mathematical Modeling and Simulation

Introduction for Scientists and Engineers

Second Edition

$$\rho \frac{D\mathbf{v}}{Dt} = -\nabla p + \mu \nabla^2 \mathbf{v} + \mathbf{f}$$

$$P\left(-z_{1-\frac{\alpha}{2}} \leq \frac{\bar{X} - \mu}{\sigma/\sqrt{n}} \leq z_{1-\frac{\alpha}{2}}\right) = 1 - \alpha$$

$$\frac{dI_{length}(t)}{dt} = \mu \cdot I_{length}(t) \frac{1 - I_{length}(t)}{I_{length,max}}$$

$$\phi(\mathbf{y}(T)) + \int_0^T L(\mathbf{y}(t), \mathbf{u}(t), t)\, dt \rightarrow \min$$

$$\forall v \in H_0^1(0,1) : -\phi(u,v) = \int_0^1 f(x)v(x)\, dx$$

$$N_{t+1} = \lambda e^{-\gamma P_t} N_t$$

$$P_{t+1} = c N_t \left(1 - e^{-\gamma P_t}\right)$$

$$U_{ij}^{(k+1)} = \frac{1}{4}\left(U_{i+1,j}^{(k)} + U_{i-1,j}^{(k)} + U_{i,j+1}^{(k)} + U_{i,j-1}^{(k)}\right) + \tau \rho_{i,j} \Delta^2$$

$$\sum_{\substack{\alpha,\beta,\gamma \in I \\ \alpha \neq \beta, \alpha \neq \gamma, \beta \neq \gamma}} c_{\alpha,\beta,\gamma} \cdot v_\alpha \cdot v_\beta \cdot v_\gamma$$

$$\mu \nabla^2 u + (\lambda + \mu)\frac{\partial}{\partial x}\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z}\right) + F_x = 0$$

$$\mu \nabla^2 v + (\lambda + \mu)\frac{\partial}{\partial y}\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z}\right) + F_y = 0$$

$$\int_{\Omega_i} \mathbf{q} \cdot \mathbf{n}\, dS = \sum_{m=1}^{n_i} \int_{\Omega_{i,m}} \mathbf{q} \cdot \mathbf{n}\, dS \sum_{m=1}^{n_i} \mathbf{q}_{\Omega_{i,m}} \cdot \mathbf{n}_{\Omega_{i,m}}$$

$$\mu \nabla^2 w + (\lambda + \mu)\frac{\partial}{\partial z}\left(\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z}\right) + F_z = 0$$

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Camilla Rothe

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