

COMPUTATIONAL STOCHASTIC MECHANICS

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- **Uncertainty Modeling by Random Field**
 - Mesh-Free discretization
 - Wavelets
- **Second-Moment and Reliability Analyses**
 - Stochastically equivalent solution
 - Moment-based quadrature Rule
 - Dimension-reduction method
 - FORM/SORM and simulation
- **Applications in Solid Mechanics**
 - Stochastic finite element method
 - Stochastic mesh-free method

