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Gangaram S. Ladde* (gladde@usf.edu), Department of Mathematics and Statistics, University of South Florida, 4202 East Fowler Avenue, PHY 114, Tampa, FL 33620-5700. *Stochastic Partial Differential Equations: Modeling, Methods and Analysis*. Preliminary report.

Developing a general conceptual algorithm for finding solution process of stochastic partial differential equations, several types of problems are solved in explicit/implicit form. The developed algorithms generate the classical eigenvalue problems. A few examples are given to illustrate scope of the approach. (Received January 17, 2012)