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**Gangaram S. Ladde\*** ([gladde@usf.edu](mailto:gladde@usf.edu)), Department of Mathematics and Statistics, University of South Florida, 4202 East Fowler Avenue, CMC 342, Tampa, FL 33620-5700. *Energy Function Method and Stochastic Mathematical Finance*. Preliminary report.

We present several examples to illustrate the role and scope of the "Energy function Method" in the study of stochastic dynamic processes. Moreover, a special attention is given to problems in stochastic mathematical finance. (Received February 10, 2014)