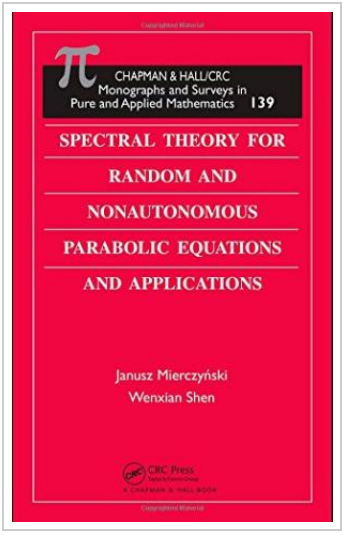

Spectral Theory for Random and Nonautonomous Parabolic Equations and Applications (Hardback)

By Mierczynski Janusz, Wenxian Shen

Taylor Francis Ltd, United States, 2008. Hardback. Condition: New. New.. Language: English . Brand New Book. Providing a basic tool for studying nonlinear problems, Spectral Theory for Random and Nonautonomous Parabolic Equations and Applications focuses on the principal spectral theory for general time-dependent and random parabolic equations and systems. The text contains many new results and considers existing results from a fresh perspective. Taking a clear, unified, and self-contained approach, the authors first develop the abstract general theory in the framework of weak solutions, before turning to cases of random and nonautonomous equations. They prove that time dependence and randomness do not reduce the principal spectrum and Lyapunov exponents of nonautonomous and random parabolic equations. The book also addresses classical Faber-Krahn inequalities for elliptic and time-periodic problems and extends the linear theory for scalar nonautonomous and random parabolic equations to cooperative systems. The final chapter presents applications to Kolmogorov systems of parabolic equations. By thoroughly explaining the spectral theory for nonautonomous and random linear parabolic equations, this resource reveals the importance of the theory in examining nonlinear problems.

Reviews

Unquestionably, this is actually the greatest function by any author. I was able to comprehended every little thing using this created e ebook. Its been printed in an remarkably straightforward way which is merely following i finished reading this ebook in which in fact altered me, alter the way i think.

-- ***Arianna Witting***

An exceptional book as well as the font used was exciting to read. It is actually rally intriguing throgh reading time. You will not sense monotony at anytime of the time (that's what catalogues are for about when you ask me).

-- ***Crystel Hagenes***