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KEY=MODELING - VANESSA SONNY

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The topics addressed include stochastic fluid dynamics and regularization by noise of deterministic dynamical systems; stochastic partial differential equations driven by Gaussian or Lévy noise, including the relationship between parabolic equations and particle systems, and wave equations in a geometric framework; Malliavin calculus and applications to stochastic numerics; stochastic integration in Banach spaces; porous media-type equations; stochastic deformations of classical mechanics and Feynman integrals and stochastic differential equations with reflection. The articles are based on short courses given at the Centre Interfacultaire Bernoulli of the Ecole Polytechnique Fédérale de Lausanne, Switzerland, from January to June 2012. They offer a valuable resource not only for specialists, but also for other researchers and Ph.D. students in the fields of stochastic analysis and mathematical physics. Contributors: S. Albeverio M. Arnaudon V. Bally V. Barbu H. Bessaih Z. Brzeźniak K. Burdzy A.B. Cruzeiro F. Flandoli A. Kohatsu-Higa S. Mazzucchi C. Mueller J. van Neerven M. Ondreját S. Peszat M. Veraar L. Weis J.-C. Zambrini Thermodynamics of Small Systems, Parts I & II* Courier Corporation *Authoritative summary introduces basics, explores environmental variables, examines binding on macromolecules and aggregation, and includes brief summaries of electric and magnetic fields, spherical drops and bubbles, and polydisperse systems. 1963 and 1964 editions. Ideas and Methods in Quantum and Statistical Physics: Volume 2 In Memory of Raphael Høegh-Krohn* Cambridge University Press *A collection of essays by many of the closest co-workers of Raphael Høegh-Krohn. 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