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oleg wilfer presents a new conjugate duality concept for geometric and cone constrained optimization problems whose objective functions are a composition of finitely many functions as an application the author derives results for single minmax location problems formulated by means of extended perturbed minimal time functions as well as for multi facility minmax location problems defined by gauges in addition he provides formulae of projections onto the epigraphs of gauges to solve these kinds of location problems numerically by using parallel splitting algorithms numerical comparisons of recent methods show the excellent performance of the proposed solving technique about the author dr oleg wilfer received his phd at the faculty of mathematics of chemnitz university of technology germany he is currently working as a development engineer in the automotive industry

various stochastic models for fatigue crack propagation under either constant amplitude or spectrum loadings have been investigated these models are based on the assumption that the crack growth rate is a lognormal random process including the general lognormal random process lognormal white noise process lognormal random variable and second moment approximations such as weibull gamma lognormal and gaussian closure approximations extensive experimental data have been used for the correlation study with various stochastic models these include fastener hole specimens under fighter or bomber spectrum laodings and center cracked specimens under constant amplitude loads the data sets for the fastener hole specimens cover adequately different loading conditions environments load transfers and crack size range it is shown that the white noise process is definitely not a valid model for fatigue crack propagation

variational calculus has been the basis of a variety of powerful methods in the eld of mechanics of materials for a long time examples range from numerical schemes like the nite element method to the determination of effective material properties via homogenization and multiscale approaches in recent years however a broad range of novel applications of variational concepts has been developed this c prises the modeling of the evolution of internal variables in inelastic materials as well as the initiation and development of material patterns and microstructures the iutam symposium on variational concepts with applications to the chanics of materials took place at the ruhr university of bochum germany on september 22 26 2008 the symposium was attended by 55 delegates from 10 countries altogether 31 lectures were presented the objective of the symposium was to give an overview of the new dev opments sketched above to bring together leading experts in these elds and to provide a forum for discussing recent advances and identifying open problems to work on in the future the symposium focused on the developmentof new material models as well as the advancement of the corresponding computational techniques speci c emphasis is put on the treatment of materials possessing an inherent crostructure and thus exhibiting a behavior which fundamentally involves multiple scales among the topics addressed at the symposium were 1 energy based modeling of material microstructures via envelopes of n quasiconvex potentials and applications to plastic behavior and pha transformations

control and communications engineers physicists and probability theorists among others will

2

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find this book unique it contains a detailed development of approximation and limit theorems and methods for random processes and applies them to numerous problems of practical importance in particular it develops usable and broad conditions and techniques for showing that a sequence of processes converges to a markov diffusion or jump process this is useful when the natural physical model is quite complex in which case a simpler approximation la diffusion process for example is usually made the book simplifies and extends some important older methods and develops some powerful new ones applicable to a wide variety of limit and approximation problems the theory of weak convergence of probability measures is introduced along with general and usable methods for example perturbed test function martingale and direct averaging for proving tightness and weak convergence kushner s study begins with a systematic development of the method it then treats dynamical system models that have state dependent noise or nonsmooth dynamics perturbed liapunov function methods are developed for stability studies of nonmarkovian problems and for the study of asymptotic distributions of non markovian systems three chapters are devoted to applications in control and communication theory for example phase locked loops and adoptive filters smallnoise problems and an introduction to the theory of large deviations and applications conclude the book harold j kushner is professor of applied mathematics and engineering at brown university and is one of the leading researchers in the area of stochastic processes concerned with analysis and synthesis in control and communications theory this book is the sixth in the mit press series in signal processing optimization and control edited by alan s willsky

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8