Potential Theory and Right Processes (Mathematics and Its Applications)

Lucian Beznea, Nicu Boboc

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This book develops the potential theory starting from a sub-Markovian resolvent of kernels on a measurable space, covering the context offered by a right process with general state space. It turns out that the main results from the classical cases (e.g., on locally compact spaces, with Green functions) have meaningful extensions to this setting. The study of the *strongly supermedian functions* and specific methods like the *Revuz correspondence*, for the largest class of measures, and the *weak duality* between two sub-Markovian resolvents of kernels are presented for the first time in a complete form. It is shown that the quasi-regular semi-Dirichlet forms fit in the weak duality hypothesis. Further results are related to the *subordination operators* and *measure perturbations*. The subject matter is supplied with a probabilistic counterpart, involving the homogeneous random measures, multiplicative, left and co-natural additive functionals.

The book is almost self-contained, being accessible to graduate students.

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