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// Rachel Kelly

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Autore Jacob Niels

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""; ""Introduction: Pseudo-Differential Operators and Markov Processes
""; ""II Generators and Their Potential Theory
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""1 Introduction """"2 Generators of Feller and Sub-Markovian Semigroups ""; ""2.1 Second Order Elliptic Differential Operators as Generators of Feller and Sub-Markovian Semigroups

""2.2 Some Second Order Differential Operators with Non-Negative Characteristic Form as Generators of Sub-Markovian Semigroups """"2.3 Some Properties of Pseudo-Differential Operators with Negative Definite Symbols

""2.4 Hoh's Symbolic Calculus for Pseudo-Differential Operators with Negative Definite Symbols

"""2.5 Estimates for Pseudo-Differential Operators with Negative Definite Symbols Using the Symbolic Calculus

""2.6 Feller Semigroups and Sub-Markovian Semigroups Generated by Pseudo-Differential Operators

## Sommario/riassunto

In this volume two topics are discussed: the construction of Feller and Lp-sub-Markovian semigroups by starting with a pseudo-differential operator, and the potential theory of these semigroups and their generators. The first part of the text essentially discusses the analysis of pseudo-differential operators with negative definite symbols and develops a symbolic calculus; in addition, it deals with special approaches, such as subordination in the sense of Bochner. The second part handles capacities, function spaces associated with continuous negative definite functions, Lp -sub-Markovian sem