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                        Renming Song, Zoran Vondracek

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   Altri autori (Persone)   SongRenming <1963->
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   Soggetti   Analytic functions
                        Monotonic functions

   Lingua di pubblicazione   Inglese

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   Nota di bibliografia   Includes bibliographical references (p. [291]-308) and index.

   Nota di contenuto   Frontmatter -- Contents -- 1 Completely monotone functions -- 2
                        Stieltjes functions -- 3 Bernstein functions -- 4 Positive and negative
                        definite functions -- 5 A probabilistic intermezzo -- 6 Complete
                        Bernstein functions: representation -- 7 Complete Bernstein functions:
                        properties -- 8 Thorin-Bernstein functions -- 9 A second probabilistic
                        intermezzo -- 10 Special Bernstein functions and potentials -- 11 The
                        spectral theorem and operator monotonicity -- 12 Subordination and
                        Bochner's functional calculus -- 13 Potential theory of subordinate
                        killed Brownian motion -- 14 Applications to generalized diffusions --
                        15 Examples of complete Bernstein functions -- Backmatter

   Sommario/riassunto   This text is a self-contained and unified approach to Bernstein
                        functions and their subclasses, bringing together old and establishing
                        new connections. Applications of Bernstein functions in different fields
                        of mathematics are given, with special attention to interpretations in
                        probability theory. An extensive list of complete Bernstein functions
                        with their representations is provided. A self-contained and unified
                        approach to the topic With applications to various fields of
                        mathematics, such as probability theory, potential theory, operator
                        theory, integral equations, functional calculi and complex analysis With

an extensive list of complete Bernstein functions. Additional material and corrections can be found on the authors' website.