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Nota di contenuto	Front matter -- Preface to the second edition -- Preface -- Contents -- Index of notation -- Chapter 1. Laplace transforms and completely monotone functions -- Chapter 2. Stieltjes functions -- Chapter 3. Bernstein functions -- Chapter 4. Positive and negative definite functions -- Chapter 5. A probabilistic intermezzo -- Chapter 6. Complete Bernstein functions -- Chapter 7. Properties of complete Bernstein functions -- Chapter 8. Thorin-Bernstein functions -- Chapter 9. A second probabilistic intermezzo -- Chapter 10. Transformations of Bernstein functions -- Chapter 11. Special Bernstein functions and potentials -- Chapter 12. The spectral theorem and operator monotonicity -- Chapter 13. Subordination and Bochner's functional calculus -- Chapter 14. Potential theory of subordinate killed Brownian motion -- Chapter 15. Applications to generalized diffusions -- Chapter 16. Examples of complete Bernstein functions -- Appendix -- Bibliography -- Index
Sommario/riassunto	Bernstein functions appear in various fields of mathematics, e.g. probability theory, potential theory, operator theory, functional analysis and complex analysis - often with different definitions and under

different names. Among the synonyms are 'Laplace exponent' instead of Bernstein function, and complete Bernstein functions are sometimes called 'Pick functions', 'Nevanlinna functions' or 'operator monotone functions'. This monograph - now in its second revised and extended edition - offers a self-contained and unified approach to Bernstein functions and closely related function classes, bringing together old and establishing new connections. For the second edition the authors added a substantial amount of new material. As in the first edition Chapters 1 to 11 contain general material which should be accessible to non-specialists, while the later Chapters 12 to 15 are devoted to more specialized topics. An extensive list of complete Bernstein functions with their representations is provided.
