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Autore	Okun, Lev Borisovich
Titolo	Leptons and Quarks / Lev Borosovich Okun
Pubbl/distr/stampa	Amsterdam [etc.] : North-Holland, 1984
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Collana	North-Holland Personal Library
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2. Record Nr.	UNINA9910777727303321
Autore	Bhatia Rajendra <1952->
Titolo	Positive definite matrices [[electronic resource] /] / Rajendra Bhatia
Pubbl/distr/stampa	Princeton, N.J., : Princeton University Press, c2007
ISBN	1-282-12974-0 9786612129742 1-4008-2778-7
Edizione	[Course Book]
Descrizione fisica	1 online resource (265 p.)
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Soggetti	Matrices
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [237]-245) and index.
Nota di contenuto	Frontmatter -- Contents -- Preface -- Chapter One. Positive Matrices -- Chapter Two. Positive Linear Maps -- Chapter Three. Completely Positive Maps -- Chapter Four. Matrix Means -- Chapter Five. Positive Definite Functions -- Chapter Six. Geometry of Positive Matrices -- Bibliography -- Index -- Notation
Sommario/riassunto	This book represents the first synthesis of the considerable body of new research into positive definite matrices. These matrices play the same role in noncommutative analysis as positive real numbers do in classical analysis. They have theoretical and computational uses across a broad spectrum of disciplines, including calculus, electrical engineering, statistics, physics, numerical analysis, quantum information theory, and geometry. Through detailed explanations and an authoritative and inspiring writing style, Rajendra Bhatia carefully develops general techniques that have wide applications in the study of such matrices. Bhatia introduces several key topics in functional analysis, operator theory, harmonic analysis, and differential geometry--all built around the central theme of positive definite matrices. He discusses positive and completely positive linear maps, and presents major theorems with simple and direct proofs. He examines matrix means and their applications, and shows how to use positive definite functions to derive operator inequalities that he and others proved in recent years. He guides the reader through the

differential geometry of the manifold of positive definite matrices, and explains recent work on the geometric mean of several matrices. Positive Definite Matrices is an informative and useful reference book for mathematicians and other researchers and practitioners. The numerous exercises and notes at the end of each chapter also make it the ideal textbook for graduate-level courses.

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