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Autore	Kota V.K.B
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Classificazione	UD 8220
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Nota di contenuto	Introduction -- Classical Random Matrix Ensembles -- Interpolating and other Extended Classical Ensembles -- Embedded GOE for Spinless Fermion Systems: EGOE (2) and EGOE (k) -- Random Two-Body Interactions in Presence of Mean-Field: EGOE (1+2) -- One Plus Two-Body Random Matrix Ensembles for Fermions With Spin-Degree of Freedom: EGOE (1+2)-s -- Applications of EGOE(1+2) and EGOE(1+2)-s -- One Plus Two-body Random Matrix Ensembles with Parity: EGOE (1+2)-192 -- Embedded GOE Ensembles for Interacting Boson Systems: BEGOE (1+2) for Spinless Bosons -- Embedded GOE Ensembles for Interacting Boson Systems: BEGOE (1+2)-F and BEGOE (1+2)-S1 for Bosons With Spin -- Embedded Gaussian Unitary Ensembles: Results From Wegner-Racah Algebra -- Symmetries, Self Correlation and Cross Correlation in Embedded Ensembles -- Further Extended Embedded Ensembles -- Regular Structures With Random

Sommario/riassunto

Although used with increasing frequency in many branches of physics, random matrix ensembles are not always sufficiently specific to account for important features of the physical system at hand. One refinement which retains the basic stochastic approach but allows for such features consists in the use of embedded ensembles. The present text is an exhaustive introduction to and survey of this important field. Starting with an easy-to-read introduction to general random matrix theory, the text then develops the necessary concepts from the beginning, accompanying the reader to the frontiers of present-day research. With some notable exceptions, to date these ensembles have primarily been applied in nuclear spectroscopy. A characteristic example is the use of a random two-body interaction in the framework of the nuclear shell model. Yet, topics in atomic physics, mesoscopic physics, quantum information science and statistical mechanics of isolated finite quantum systems can also be addressed using these ensembles. This book addresses graduate students and researchers with an interest in applications of random matrix theory to the modeling of more complex physical systems and interactions, with applications such as statistical spectroscopy in mind. .

2. Record Nr.	UNINA9910716014003321
Autore	Morlock Scott E.
Titolo	Evaluation of Acoustic Doppler Current Profiler measurements of river discharge // by Scott E. Morlock
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Descrizione fisica	1 online resource (iv, 37 pages) : illustrations
Collana	Water-resources investigations report ; ; 95-4218
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