1. Record Nr. UNISA996466706803316

Titolo	Field Theory, Quantum Gravity and Strings II [[electronic resource]] : Proceedings of a Seminar Series Held at DAPHE, Observatoire de Meudon, and LPTHE, Université Pierre et Marie Curie, Paris, Between October 1985 and October 1986 / / edited by Hector J. de Vega, Norma Sanchez
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1987
ISBN	3-540-47934-1
Edizione	[1st ed. 1987.]
Descrizione fisica	1 online resource (VIII, 248 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 280
Disciplina	530.1
Soggetti	Mathematical physics Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Covariant quantization of the bosonic string: Free theory -- Operatorial quantization of dynamical systems with irreducible first and second class constraints -- Kaluza-Klein approach to superstrings -- Non linear effects in quantum gravity -- Our universe as an attractor in a superstring model -- Mutually interacting quantum fields in curved space-times -- Gravitons in de sitter space -- Effects of graviton production in inflationary cosmology 1 -- Multi-dimensional integrable systems -- Monopole and vortex scattering -- The ambitwistor program -- Supersymmetric extension of twistor formalism -- Supersymmetries of the dyon -- Classical r-matrices, lax equations, poisson lie groups and dressing transformations -- On monte carlo simulations of random loops and surfaces -- Field theoretic methods in critical phenomena with boundaries.
Sommario/riassunto	The present volume Field Theory, Quantum Gravity and Strings, II comprises for the lectures delivered in 1985/86 at a joint seminar of the DAPHE observatory at Meudon and the LPTHE University Paris VI. This set of lectures contains selected topics of current interest in field and particle theory, cosmology and statistical mechanics. Basic problems of string and superstring theory are treated in a

contemporary perspective, and quantum field theoretical as well as string approaches to cosmology are presented. Recent progress on integrable theories and related subjects in two, four and more dimensions is reviewed. This seminar on current developments in mathematical physics addresses researchers as well as graduate students.