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Autore	Vocino, Michele
Titolo	Giudizi di scrittori sul Paesaggio Garganico / Michele Vocino
Pubbl/distr/stampa	Foggia : Arti Grafiche S. Pescatore ((Foggia) : EPT, stampa 1949
Descrizione fisica	25 p., 6 c. di ill. ; 23 cm
Collana	Collana di Quaderni turistici
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Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910736978703321
Autore	Rudolph Gerd
Titolo	Differential Geometry and Mathematical Physics : Part II. Fibre Bundles, Topology and Gauge Fields / / by Gerd Rudolph, Matthias Schmidt
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ISBN	94-024-0959-9
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVI, 830 p. 15 illus., 2 illus. in color.)
Collana	Theoretical and Mathematical Physics, , 1864-5879
Disciplina	530.15
Soggetti	Physics Geometry, Differential Mathematical physics Geometry, Algebraic Algebraic topology Particles (Nuclear physics) Quantum field theory Mathematical Methods in Physics Differential Geometry Mathematical Physics Algebraic Geometry Algebraic Topology Elementary Particles, Quantum Field Theory

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Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fibre bundles and connections -- Linear connections and Riemannian geometry -- Homotopy theory of principal fibre bundles. Classification -- Cohomology theory of fibre bundles. Characteristic classes -- Clifford algebras, spin structures and Dirac operators -- The Yang-Mills equation -- Matter fields and model building -- The gauge orbit space -- Elements of quantum gauge theory -- A Field restriction and field extension -- B The Conformal Group of the 4-sphere -- C Simple Lie algebras. Root diagrams -- D ζ -function regularization -- E K-theory and index bundles -- F Determinant line bundles -- G Eilenberg-MacLane spaces -- References. Index.
Sommario/riassunto	The book is devoted to the study of the geometrical and topological structure of gauge theories. It consists of the following three building blocks: - Geometry and topology of fibre bundles, - Clifford algebras, spin structures and Dirac operators, - Gauge theory. Written in the style of a mathematical textbook, it combines a comprehensive presentation of the mathematical foundations with a discussion of a variety of advanced topics in gauge theory. The first building block includes a number of specific topics, like invariant connections, universal connections, H-structures and the Postnikov approximation of classifying spaces. Given the great importance of Dirac operators in gauge theory, a complete proof of the Atiyah-Singer Index Theorem is presented. The gauge theory part contains the study of Yang-Mills equations (including the theory of instantons and the classical stability analysis), the discussion of various models with matter fields (including magnetic monopoles, the Seiberg-Witten model and dimensional reduction) and the investigation of the structure of the gauge orbit space. The final chapter is devoted to elements of quantum gauge theory including the discussion of the Gribov problem, anomalies and the implementation of the non-generic gauge orbit strata in the framework of Hamiltonian lattice gauge theory. The book is addressed both to physicists and mathematicians. It is intended to be accessible to students starting from a graduate level.