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Titolo	Infinite dimensional groups and manifolds [[electronic resource] /] / editor Tilmann Wurzbacher
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Descrizione fisica	1 online resource (260 p.)
Collana	IRMA lectures in mathematics and theoretical physics ; ; 5
Classificazione	SK 350
Altri autori (Persone)	WurzbacherTilman <1961->
Disciplina	512/.55
Soggetti	Infinite-dimensional manifolds Infinite dimensional Lie algebras Differential equations, Partial Quantum field theory
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front matter -- Table of Contents -- Lie groups of germs of analytic mappings -- The flow completion of the Burgers equation -- Enumerative geometry and knot invariants -- Gerbes, (twisted) K-theory, and the supersymmetric WZW model -- Current groups for non-compact manifolds and their central extensions -- Traces and characteristic classes on loop spaces -- New classical limits of quantum theories
Sommario/riassunto	The volume is a collection of refereed research papers on infinite dimensional groups and manifolds in mathematics and quantum physics. Topics covered are: new classes of Lie groups of mappings, the Burgers equation, the Chern--Weil construction in infinite dimensions, the Hamiltonian approach to quantum field theory, and different aspects of large N limits ranging from approximation methods in quantum mechanics to modular forms and string/gauge theory duality. Directed at research mathematicians and theoretical physicists as well as graduate students, the volume gives an overview of important themes of research at the forefront of mathematics and

theoretical physics.
