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Autore	Baracco, Adriano
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Autore	Giachetta G
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ISBN	1-282-44286-4 9786612442865 981-283-896-1
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Altri autori (Persone)	MangiarottiL SardanashviliG. A (Gennadii Aleksandrovich)
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Soggetti	Field theory (Physics) - Mathematics Lagrange equations
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Nota di bibliografia	Includes bibliographical references (p. 359-367) and index.
Nota di contenuto	Preface; Contents; Introduction; 1. Differential calculus on fibre bundles; 2. Lagrangian field theory on fibre bundles; 3. Grassmann-graded Lagrangian field theory; 4. Lagrangian BRST theory; 5. Gauge theory on principal bundles; 6. Gravitation theory on natural bundles;

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## Sommario/riassunto

Contemporary quantum field theory is mainly developed as quantization of classical fields. Therefore, classical field theory and its BRST extension is the necessary step towards quantum field theory. This book aims to provide a complete mathematical foundation of Lagrangian classical field theory and its BRST extension for the purpose of quantization. Based on the standard geometric formulation of theory of nonlinear differential operators, Lagrangian field theory is treated in a very general setting. Reducible degenerate Lagrangian theories of even and odd fields on an arbitrary smooth manifold

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