



Differential Geometrical Methods in Mathematical Physics II

By K. Bleuler

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physical conception of geometry.- Characteristic classes and

solutions of gauge theories.- Classification of classical yang-mills

fields.- Bundle representations and their applications.- to gauge

theory.- The use of exterior forms in field theory.-

Electromagnetic fields on manifolds: Betti numbers, monopoles

and strings, minimal coupling.- Gravity is the gauge theory of

the parallel transport modification of the poicare group.- On

the lifting of structure groups.- On the non-uniqueness of spin

structure in superconductivity.- Conformal invariance in field

theory.- Geometric quantization and the WKB approximation.-

Some properties of half-forms.- On some approach to

geometric quantization.- Representations associated to minimal

co-adjoint orrits.- On the Schrödinger equation given by

geometric quantisation.- Application of geometric quantization

in quantum mechanics.- Thermodynamique et Geometrie.-

Some preliminary remarks on the formal variational calculus of

gel'fand and dikii.- Reducibility of the symplectic structure of

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Quantum field theory in curved space-times a general

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