

# Constrained dynamics with applications to Yang-Mills theory, general relativity, classical spin, dual string model.

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**Legend:**

- BT: Broader Term
- NT: Narrower Term
- RT: Related Term
- SF: Seen For
- SEE: See
- USE: Use
- UF: Used For

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AbstractAbstract

[en] This book is an introduction to the Lagrangian formulation of classical mechanics and field theory. After a description of classical regular and singular systems together with the reduced phase space the quantization of constrained systems is described. Then as examples the electromagnetic field, the Yang-Mills theory, the relativistic particle, the relativistic string and Einstein's theory of gravitation are considered. This book is suited for students and scientists who want to get some knowledge about theoretical physics beyond the usual fields taught in the regular courses. (HSI)

Primary Subject

[CLASSICAL AND QUANTUM MECHANICS, GENERAL PHYSICS \(A1100\)](#)

Source

Lecture notes in physics; v. 169; 1982; 318 p; Springer; Berlin (Germany, F.R.); [ISBN 3-540-11947-7](#);

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