

which is of mixed F_2, F_1 type. This is Legendre-transformed into a function of the F_1 type according to

$$F_1(q_1, Q_1, q_2, Q_2) = F_{12} + p_1 q_1.$$

The least action principle then says

$$\begin{aligned} p_1 \dot{q}_1 + p_2 \dot{q}_2 - H(q_1, p_1) &= P_1 \dot{Q}_1 + P_2 \dot{Q}_2 - K(Q_1, P_1) + \frac{\partial F_{12}}{\partial p_1} \dot{p}_1 + \frac{\partial F_{12}}{\partial Q_1} \dot{Q}_1 \\ &\quad + \frac{\partial F_{12}}{\partial q_2} \dot{q}_2 + \frac{\partial F_{12}}{\partial Q_2} \dot{Q}_2 + p_1 \dot{q}_1 + q_1 \dot{p}_1 \end{aligned}$$

whence clearly

$$\begin{aligned} q_1 &= -\frac{\partial F_{12}}{\partial p_1} = Q_1 && \checkmark \\ P_1 &= -\frac{\partial F_{12}}{\partial Q_1} = -p_1 - 2Q_2 && \\ &= -p_1 - 2p_2 && \checkmark \\ p_2 &= \frac{\partial F_{12}}{\partial q_2} = Q_2 && \checkmark \\ P_2 &= -\frac{\partial F_{12}}{\partial Q_2} = -2Q_1 - q_2 = -2q_1 - q_2 && \checkmark. \end{aligned}$$

Problem 9.14

By any method you choose show that the following transformation is canonical:

$$\begin{aligned} x &= \frac{1}{\alpha}(\sqrt{2P_1} \sin Q_1 + P_2), & p_x &= \frac{\alpha}{2}(\sqrt{2P_1} \cos Q_1 - Q_2) \\ y &= \frac{1}{\alpha}(\sqrt{2P_1} \cos Q_1 + Q_2), & p_y &= -\frac{\alpha}{2}(\sqrt{2P_1} \sin Q_1 - P_2) \end{aligned}$$

where α is some fixed parameter.

Apply this transformation to the problem of a particle of charge q moving in a plane that is perpendicular to a constant magnetic field \mathbf{B} . Express the Hamiltonian for this problem in the (Q_1, P_1) coordinates, letting the parameter α take the form

$$\alpha^2 = \frac{qB}{c}.$$

From this Hamiltonian obtain the motion of the particle as a function of time.

We will prove that the transformation is canonical by finding a generating function. Our first step to this end will be to express everything as a function

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M. Mitchell Waldrop



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Robust Control of Linear Systems and Nonlinear Control M. A. Kaashoek, J. H. van Schuppen, A. C. M.

Ran, 2013-03-07 This volume is the second of the three volume publication containing the proceedings of the 1989 International Symposium on the Mathematical Theory of Networks and Systems MTNS 89 which was held in Amsterdam The Netherlands June 19-23 1989 The International Symposia MTNS focus attention on problems from system and control theory circuit theory and signal processing which in general require application of sophisticated mathematical tools such as from function and operator theory linear algebra and matrix theory differential and algebraic geometry The interaction between advanced mathematical methods and practical engineering problems of circuits systems and control which is typical for MTNS turns out to be most effective and is as these proceedings show a continuing source of exciting advances The second volume contains invited papers and a large selection of other symposium presentations in the vast area of robust and nonlinear control Modern developments in robust control and H infinity theory for finite as well as for infinite dimensional systems are presented A large part of the volume is devoted to nonlinear control Special attention is paid to problems in robotics Also the general theory of nonlinear and infinite dimensional systems is discussed A couple of papers deal with problems of stochastic control and filterina vi Preface The titles of the two other volumes are Realization and Modelling in System Theory volume 1 and Signal Processing Scattering and Operator Theory and Numerical Methods volume 3

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Group Theory & General Relativity Moshe Carmeli, 2000-11-15 This is the only book on the subject of group theory and Einstein's theory of gravitation It contains an extensive discussion on general relativity from the viewpoint of group theory and gauge fields It also puts together in one volume many scattered original works on the use of group theory in general relativity theory There are twelve chapters in the book The first six are devoted to rotation and Lorentz groups and their representations They include the spinor representation as well as the infinite dimensional representations The other six chapters deal with the application of groups particularly the Lorentz and the $SL(2, C)$ groups to the theory of general relativity Each chapter is concluded with a set of problems The topics covered range from the fundamentals of general relativity theory its formulation as an $SL(2, C)$ gauge theory to exact solutions of the Einstein gravitational field equations The important Bondi Metzner Sachs group and its representations conclude the book The entire book is self contained in both group theory and general relativity theory and no prior knowledge of either is assumed The subject of this book constitutes a relevant link between field theoreticians and general relativity theoreticians who usually work rather independently of each other The treatise is highly topical and of real interest to theoretical physicists general relativists and applied mathematicians It is invaluable to graduate students and research workers in quantum field theory general relativity and elementary particle theory

On Einstein's Path Alex Harvey, 2012-12-06 Friends and colleagues of Engelbert Schucking came together in a symposium on the 12th and 13th of December 1996 at New York University to celebrate and express to him their respect admiration and affection They came to celebrate his scientific and scholarly achievements the inspirational quality of his teaching his graciousness as a colleague his thoughtful guidance of graduate students his service to the department the university and the physics community at large and not least his open courteous easy accessibility to anyone needing his counselor expertise The announcement was A SYMPOSIUM In Honor of PROF ENGELBERT SCHUCKING Physics Department New York University On December 12th and 13th there will be a Symposium to honor Professor Engelbert Schucking for his service to the University the Department and the Physics Community The December 12th session will run from 1 to 6 PM followed by a reception The following morning the session will run from 9 AM to 1 PM Attendance including the reception is open to all friends and colleagues of Professor Schucking and anyone interested in General Relativity The talks will be presented in Room 121 4 Washington Place the reception will be in the office of Dean Furmankis 5 Washington Square North from 6 15 to 8 00 PM Thursday Afternoon Greetings Alice S

Modern Physics and Quantum Mechanics Elmer E. Anderson, 1971 This book is designed to bridge the gap between the descriptive course at the sophomore level and a graduate course in quantum mechanics in which formal operator methods are used freely

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