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Contact Geometry and Nonlinear Differential Equations Methods from contact and symplectic geometry can be used to solve highly non-trivial non-linear partial and ordinary differential equations without resorting to approximate

Contact Geometry and Nonlinear Differential Equations

Contact Geometry and Non-linear Differential Equations ALEXEI KUSHNER, VALENTIN LYCHAGIN AND VLADIMIR RUBTSOV CAMBRIDGE UNIVERSITY PRESS. Contents Preface xiii Part I Symmetries and Integrals 1 1 Distributions 3 1.1 Distributions and integral manifolds 3 1.1.1 Distributions 3

Contact Geometry and Non-linear Differential Equations

A detailed account of the geometry of differential equations in jet spaces can be found in [11], where symmetry methods from contact and symplectic geometry are used to solve non-trivial nonlinear ...

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Geometry of stochastic delay differential equations with jumps in manifolds Ruffino, Paulo R. and Morgado, Leandro, Electronic Communications in Probability, 2016 Soliton equations and differential geometry Terng, Chuu-Lian, Journal of Differential Geometry, 1997

Donev : Contact Geometry and Non-linear Differential

3 Contact Geometry and Static Feedback Linearization Since Brunovskyâ€™s seminal paper [6] there has been a great deal of interest in the exact linearization of nonlinear control systems.

(PDF) Symmetry Reduction, Contact Geometry and Nonlinear

In this investigation, a numerical procedure that can be used for the analysis of a wheel and rail contact geometry is developed using the constraint contact formulation.

Wheelâ€•Rail Two-Point Contact Geometry With Back-of-Flange

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modeling non-linear systems, therefore, it is common to approximate them as linear, where possible.

Introduction - Aalborg Universitet

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from contact and symplectic geometry. Combining the clarity and accessibility of an advanced textbook with
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problem to analysis of ...

Contact geometry and non-linear differential equations

Shows novel and modern ways of solving differential equations using methods from contact and symplectic
geometry.

Contact Geometry and Nonlinear Differential Equations

Abstract: We study control systems invariant under a Lie group with application to the problem of nonlinear
trajectory planning. A theory of symmetry reduction of exterior differential systems is employed to
demonstrate how symmetry reduction and reconstruction is effective in the explicit, exact construction of
planned system trajectories.

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