

CONTACT ALGORITHMS FOR CONTACT DYNAMICAL SYSTEMS

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摘要

关键词

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Abstract In this paper, we develop a general way to construct contact algorithms for contact dynamical systems. Such an algorithm requires the corresponding step-transition map preserve the contact structure of the underlying contact phase space. The constructions are based on the correspondence between the contact geometry of \mathbb{R}^{2n+1} and the conic symplectic one of \mathbb{R}^{2n+2} and therefore, the algorithms are derived naturally from the symplectic algorithms of Hamiltonian systems.

Key words [Contact algorithms](#) [contact systems](#) [conic symplectic geometry](#) [generating functions](#).

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通讯作者

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