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Hamiltonian and
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Algorithms and Control

Anthony Bloch
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Hamiltonian And Gradient Flows Algorithms And Control

Daniela Niemeyer



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by a set of nonlinear first order ordinary differential equations in Euclidean space whereas geometric mechanics explore similar systems that instead evolve on differentiable manifolds The first part discusses the linearization and stability of trajectories and fixed points invariant manifold theory periodic orbits Poincar maps Floquet theory the Poincar Bendixson theorem bifurcations and chaos The second part of the book begins with a self contained chapter on differential geometry that introduces notions of manifolds mappings vector fields the Jacobi Lie bracket and differential forms

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