The background of the paper under review is the Hamiltonian reduction by stages developed by J. Marsden, G. Misiolek, J. Ortega, M. Perlmutter and T. Ratiu. It is well known that Hamiltonian reduction by stages is a sufficient condition for the general theorem of step-by-step reduction. Using a Lie algebraic approach to the problem the authors prove the “stage hypothesis” in a more general situation (not only for the semidirect products of the groups with cycles). This approach also allows them to simplify the proof of the main theorem (a step-by-step reduction theorem).

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References


Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.