



Four-dimensional Integrable Hamiltonian Systems with Critical Points (Hardback)

By Lev M. Lerman, Ya. L. Umanskiy

American Mathematical Society, United States, 1998. Hardback. Condition: New. Language: English . Brand New Book. The main topic of this book is the isoenergetic structure of the Liouville foliation generated by an integrable system with two degrees of freedom and the topological structure of the corresponding Poisson action of the group \mathbb{R}^2 . This is a first step towards understanding the global dynamics of Hamiltonian systems and applying perturbation methods. Emphasis is placed on the topology of this foliation rather than on analytic representation. In contrast to previously published works in this area, here the authors consistently use the dynamical properties of the action to achieve their results.



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