Deformation Quantization for Actions of R(d)

By Marc A. Rieffel

American Mathematical Society. Paperback. Book Condition: new. BRAND NEW, Deformation Quantization for Actions of R(d), Marc A. Rieffel, This work describes a general construction of a deformation quantization for any Poisson bracket on a manifold which comes from an action of R^d on that manifold. These deformation quantizations are strict, in the sense that the deformed product of any two functions is again a function and that there are corresponding involutions and operator norms. Many of the techniques involved are adapted from the theory of pseudo-differential operators. The construction is shown to have many favorable properties. A number of specific examples are described, ranging from basic ones such as quantum disks, quantum tori, and quantum spheres, to aspects of quantum groups.

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