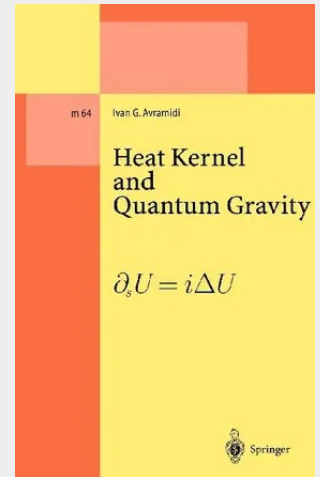


Heat Kernel and Quantum Gravity

This book is aimed at theoretical as well as primarily physicists graduate students in field working quantum theory, quantum gravity, theories, gauge to some and and, it is not extent, general relativity cosmology. Although aimed at a level that it also be of level, hope in mathematically rigorous may interest to mathematical and mathematicians in physicists working spectral of differential manifold geometry, spectral asymptotics on operators, analysis differential and mathematical methods in fields, geometry quantum theory. This book will be considered too abstract some but certainly by physicists, not detailed and most mathematicians. This in complete enough by means, that the material is at the level of particular, presented "physical" So, rigor. there theorems and are and technical calculations are lemmas, proofs long omitted. I tried detailed to a of the basic. Instead, give presentation ideas, methods and results. I tried make the to as and come. Also, exposition explicit as the less abstract and have illustrated the plethore possible, methods language and results with some. As is well "one cannot examples. known, cover every in an text. The in this thing", especially introductory approach presented book the lines is a further of the so called along goes (and development) field method of De Witt. As a I have not dealt at background consequence, all with manifolds with boundary, non Laplace type (or non minimal) on Riemann Cartan manifolds well with as as recent tors, developments many and advanced such as Ashtekar's more as topics, approach, supergravity, strings, matrix etc. The membranes, interested reader is referred models, M theory to the literature.

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