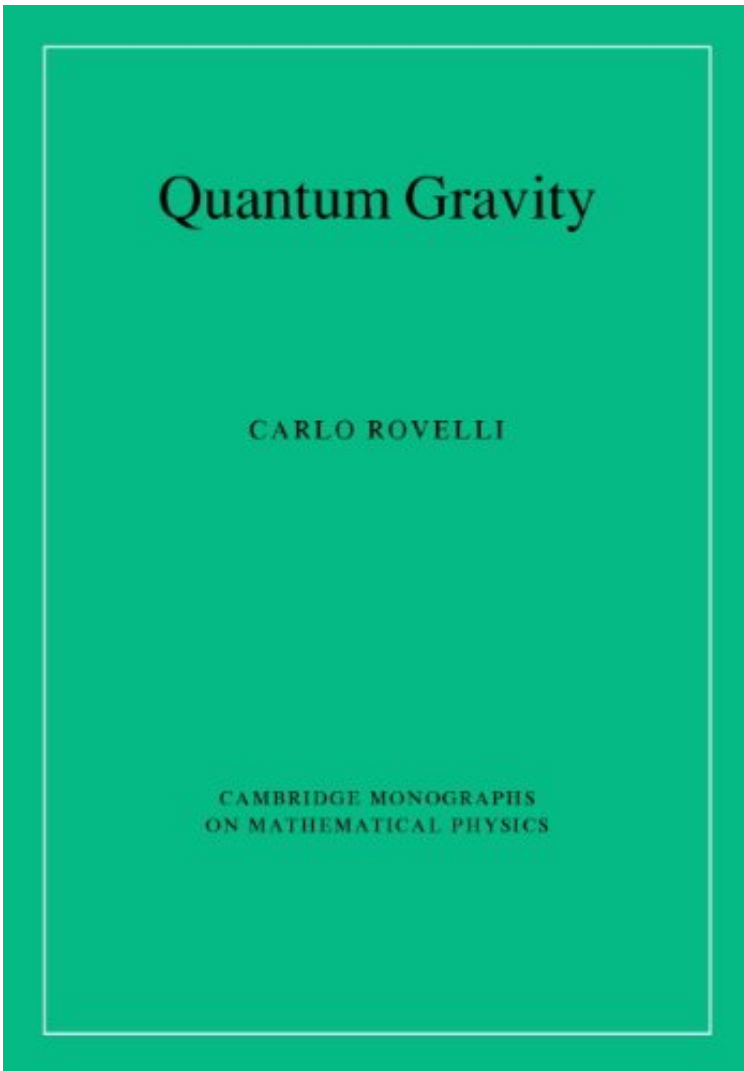


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# Quantum Gravity



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the problem of quantum gravity which should be considered as wide open. The book of Carlo Rovelli provides the basis, both at the technical and the conceptual level, for research in this fundamental problem of physics. The basic issues are clearly and deeply analyzed without any dogmatic stand and with great freedom of thoughts resulting in an invaluable opportunity to learn and think for both mathematicians and physicists.' Alain Connes, Collge de France, I.H.E.S. and Vanderbilt University" This is a truly great book! a must for someone interested in quantum gravity.' Mathematical s' written very carefully and can be recommended highly to anybody interested in the broad field and in conceptual issues of quantum gravity experts will find many new and clear notes of the author's view of loop quantum gravity as one of its founders a non-expert reader, after working through the book, will be well prepared to read up further details in research or review articles ' General Relativity and Gravitation JournalPrsentation de l'diteur Quantum gravity is perhaps the most important open problem in fundamental physics. It is the problem of merging quantum mechanics and general relativity, the two great conceptual revolutions in the physics of the twentieth century. The loop and spinfoam approach, presented in this 2004 book, is one of the leading research programs in the field. The first part of the book discusses the reformulation of the basis of classical and quantum Hamiltonian physics required by general relativity. The second part covers the basic technical research directions. Appendices include a detailed history of the subject of quantum gravity, hard-to-find mathematical material, and a discussion of some philosophical issues raised by the subject. This fascinating text is ideal for graduate students entering the field, as well as researchers already working in quantum gravity. It will also appeal to philosophers and other scholars interested in the nature of space and time.