



# A Unified Grand Tour of Theoretical Physics, Third Edition

*Ian D. Lawrie*

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This third edition of the **Tour** includes a new chapter on quantum gravity, focusing on the approach known as Loop Quantum Gravity, while new sections provide extended discussions of topics that have become prominent in recent years, such as the Higgs boson, massive neutrinos, cosmological perturbations, dark energy and matter, and the thermodynamics of black holes.

Designed for those in search of a solid grasp of the inner workings of these theories, but who prefer to avoid a full-scale assault on the research literature, the **Tour** assumes as its point of departure a familiarity with basic undergraduate-level physics, and emphasizes the interconnections between aspects of physics that are more often treated in isolation.

The companion website at [www.unifiedgrandtours.org](http://www.unifiedgrandtours.org) provides further resources, including a comprehensive manual of solutions to the end-of-chapter exercises.



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