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neutron interferometer a particularly versatile tool for testing fundamental physics concepts. Indeed just the existence of the neutron interferometer is a striking example of the wave-particle duality of quantum mechanics. The first half of the book introduces the basic aspects of neutron interferometers and the interactions of neutrons with matter.

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Many Gedanken experiments of quantum mechanics became actual because of neutron interferometry. Quantum mechanics is part of physics the place test and idea are inseparably intertwined. This basic subject matter permeates the second one version of this publication.

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Since the neutron experiences all four fundamental forces of nature (strong, weak, electromagnetic, and gravitational), interferometry with neutrons provides a fertile testing ground for theory and precision measurements. Many Gedanken experiments of quantum mechanics have become real due to neutron interferometry.

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