

Synopsis

This text describes novel treatments of quantum problems using enhanced quantization procedures, generally involving extended correspondence rules for the association of a classical and a quantum theory. Beginning with a review of classical mechanics, the book goes on to detail Hilbert space, quantum mechanics, and scalar quantum field theory. Later chapters further develop analytical skills, study a special class of models, and present a discussion of continuous and discontinuous perturbations. The final chapter offers a brief summary, concluding with a conjecture regarding interacting covariant scalar quantum field theories. Throughout, symmetry is used as a tool to help develop solutions for simple and complex problems alike. Challenging exercises and detailed references are included.

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