



New Model Course in Applied Quantum Physics

Indicates a research-demonstrated benefit

Overview

Website

Resources for teaching introductory quantum mechanics and modern physics with an emphasis on concepts and applications.

Type of Method	Curriculum supplement, Tutorials
X: Level	Designed for: Intermediate
⋒ Setting	Designed for: Lecture - Small (<30 students), Recitation/Discussion Session, Homework Can be adapted for: Lecture - Large (30+ students), Studio
Coverage	Many topics with less depth
Topics	Modern / Quantum
Instructor Effort	Medium
Skills	Designed for: Conceptual understanding, Making real-world connections
Research Validation	Based on research into: theories of how students learn 🤏 , student ideas about specific topics ເຈົ້າ
Compatible Methods	Peer Instruction, PhET, JiTT, CGPS, Physlets, SCALE-UP, OSP, Thinking Problems, LA Program, CAE TPS, CU Modern, QuILTs, PI QM, Tutorials, Clickers
Similar Methods	ABP Tutorials, CU Modern
Developer(s)	Michael Wittman, Richard Steinberg, and Edward Redish

http://www.physics.umd.edu/perg/qm/qmcourse/welcome.htm

Teaching materials

You can download the tutorials, pre-tests, homework, essay questions, exam questions, software, and other handouts from the New Model Course website.

These tutorials have also been published as a book by Wiley as the Activity-Based Tutorials Volume 2. You can order the book from Wiley or from Amazon.







