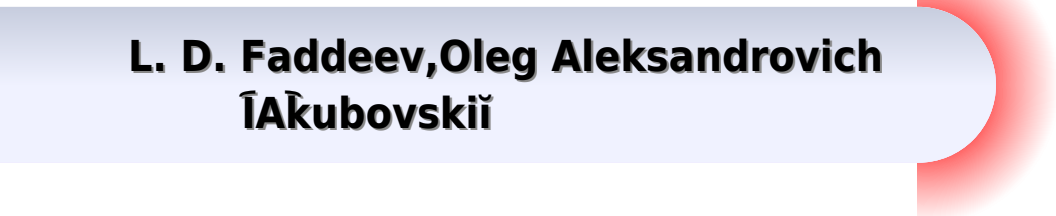


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Course In Mathematics For Students Of Physics

**L. D. Faddeev, Oleg Aleksandrovich
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college level works including the Lorentz transformation Subsequent chapters introduce the four dimensional worldview implied by the Lorentz transformations mixing time and space coordinates before continuing on to the formalism of tensors a topic usually avoided in lower level courses The book s second half addresses a number of essential points including the concept of causality the equivalence between mass and energy including applications relativistic optics and measurements and matter in Minkowski space time The closing chapters focus on the energy momentum tensor of a continuous distribution of mass energy and its co variant conservation angular momentum a discussion of the scalar field of perfect fluids and the Maxwell field and general coordinates Every chapter is supplemented by a section with numerous exercises allowing readers to practice the theory These exercises constitute an essential part of the textbook and the solutions to approximately half of them are provided in the appendix

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catalogue of the law school of the university at Cambridge Harvard university law sch, 1873 *Lectures on Quantum Mechanics for Mathematics Students* L. D. Faddeev, Oleg Aleksandrovich Iĭkubovskiĭ, 2009 Describes the relation between classical and quantum mechanics This book contains a discussion of problems related to group representation theory and to scattering theory It intends to give a mathematically oriented student the opportunity to grasp the main points of quantum theory in a mathematical framework

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