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do you have a handle on basic physics terms and concepts but your problem solving skills could use some static

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these popular and proven workbooks help students build confidence before attempting end of chapter problems they provide short exercises that focus on developing a particular skill mostly requiring students to draw or interpret sketches and graphs

this problem book is based on the exercises and lectures which i have given to undergraduate and graduate students of the faculty of physics university of belgrade over many years nowadays there are a lot of excellent quantum field theory textbooks unfortunately there is a shortage of problem books in this field one of the exceptions being the problem book of cheng and li 7 the overlap between this problem book and 7 is very small since the latter mostly deals with gauge field theory and particle physics textbooks usually contain problems without solutions as in other areas of physics doing more problems in full details improves both understanding and efficiency so i feel that the absence of such a book in quantum field theory is a gap in the literature this was my main motivation for writing this problem book to students you cannot start to do problems without previous studying your lecture notes and textbooks try to solve problems without using

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a textbook neutral problems and solutions book that complements any relativity textbook at advanced undergraduate or masters level

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a page each problem is stated at the top of a page and the student is provided space to execute each element of the problem solving procedure a detailed solution to each problem is presented in the same form such as in the format of the problem solving procedure on the reverse side of the page the solution page often includes comments and suggestions appropriate to the specific type of problem being considered the opening chapters include discussions on particle kinematics and dynamics applications of newton s laws and work power and energy the subsequent chapters explore the concepts of momentum collisions rotational motion oscillations mechanics of fluids heat and thermodynamics other chapters examine the principles of electric charge electric fields electric potential capacitance current resistance direct current circuits magnetic fields and electromagnetic oscillations the remaining chapters deal with wave motion sound geometric and physical optics special relativity early quantum physics and wave mechanics this workbook will be of great benefit to physics teachers and students

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