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mathematical physics with partial differential equations second edition is designed for upper division undergraduate and beginning graduate students taking mathematical physics taught out by math departments the new edition is based on the success of the first with a continuing focus on clear presentation detailed examples mathematical rigor and a careful selection of topics it presents the familiar classical topics and methods of mathematical physics with more extensive coverage of the three most important partial differential equations in the field of mathematical physics the heat equation the wave equation and laplace s equation the book presents the most common techniques of solving these equations and their derivations are developed in detail for a deeper understanding of mathematical applications unlike many physics leaning mathematical physics books on the market this work is heavily rooted in math making the book more appealing for students wanting to progress in mathematical physics with particularly deep coverage of green s functions the fourier transform and the laplace transform a salient characteristic is the focus on fewer topics but at a far more rigorous level of detail than comparable undergraduate facing textbooks the depth of some of these topics such as the dirac delta distribution is not matched elsewhere new features in this edition include novel and illustrative examples from physics including the 1 dimensional quantum mechanical oscillator the hydrogen atom and the rigid rotor model chapter length discussion of relevant functions including the hermite polynomials legendre polynomials laguerre polynomials and bessel functions and all new focus on complex examples only solvable by multiple methods introduces and evaluates numerous physical and engineering concepts in a rigorous mathematical framework provides extremely detailed mathematical derivations and solutions with extensive proofs and weighting for application potential explores an array of detailed examples from physics that give direct application to rigorous mathematics offers instructors useful resources for teaching including an illustrated instructor s manual powerpoint presentations in each chapter and a solutions manual

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doing mathematics discusses some ways mathematicians and mathematical physicists do their work and the subject matters they uncover and fashion the conventions they adopt the subject areas they delimit what they can prove and calculate about the physical world and the analogies they discover and employ all depend on the mathematics what will work out and what won't the cases studied include the central limit theorem of statistics the sound of the shape of a drum the connections between algebra and topology and the series of rigorous proofs of the stability of matter the many and varied solutions to the two dimensional ising model of ferromagnetism make sense as a whole when they are seen in an analogy developed by richard dedekind in the 1880s to algebraicize riemann's function theory by robert langlands program in number theory and representation theory and by the analogy between one dimensional quantum mechanics and two dimensional classical statistical mechanics in effect we begin to see an identity in a manifold presentation of profiles as the phenomenologists would say this second edition deepens the particular examples it describe the practical role of mathematical rigor it suggests what might be a mathematician's philosophy of mathematics and it shows how an ugly first proof or derivation embodies essential features only to be appreciated after many subsequent proofs natural scientists and mathematicians trade physical models and abstract objects remaking them to suit their needs discovering new roles for them as in the recent case of the painlevé transcendents the tracy widom distribution and toeplitz determinants and mathematics has provided the models and analogies the ordinary language for describing the everyday world the structure of cities or god's infinitude

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