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a concise and up to date introduction to mathematical methods for students in the physical sciences mathematical methods in physics engineering and chemistry offers an introduction to the most important methods of theoretical physics written by two physics professors with years of experience the text puts the focus on the essential math topics that the majority of physical science students require in the course of their studies this concise text also contains worked examples that clearly illustrate the mathematical concepts presented and shows how they apply to physical problems this targeted text covers a range of topics including linear algebra partial differential equations power series sturm liouville theory fourier series special functions complex analysis the green s function method integral equations and tensor analysis this important text provides a streamlined approach to the subject by putting the focus on the mathematical topics that physical science students really need offers a text that is different from the often found definition theorem proof scheme includes more than 150 worked examples that help with an understanding of the problems presented presents a guide with more than 200 exercises with different degrees of difficulty written for advanced undergraduate and graduate students of physics materials science and engineering mathematical methods in physics engineering and chemistry includes the essential methods of theoretical physics the text is streamlined to provide only the most important mathematical concepts that apply to physical problems

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