



THIRD EDITION

MATHEMATICAL METHODS FOR PHYSICS AND ENGINEERING

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Mathematical Methods In Physics Eng

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practice problems problems that complete and extend the material presented in the text and some longer and more difficult problems which are presented as challenges to the students There are complete solutions available detailed and commented to all the problems proposed which are presented in separate volumes This volume is dedicated to Fourier transforms This term is used here in a wider sense including finite Fourier transforms defined on a finite and discrete lattice Fourier series defined on a finite domain within the continuum and the usual Fourier transforms defined on the infinite continuum This constitutes an elementary introduction to what is called in its more abstract form harmonic analysis By means of the device of starting from the finite and discrete version of the formalism which is done in the spirit of the definition of the Riemann integral we are able to present in a clear way the basic structure of this whole formalism while avoiding any need to face on this first moment the difficult convergence questions that arise when one takes the continuum limit Once in the continuum the convergence issues are addressed and put in proper perspective through the use of a low pass filter which is defined and developed in a fairly precise way In the last two chapters the whole structure of the Fourier theory of real functions is derived ab initio once again this time directly in the continuum starting from the theory of analytic functions There we present something that works like a universal summation rule which applies to all Fourier series and which allows us to recover any integrable real function from the set of its Fourier coefficients even when the Fourier series itself diverges

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