

# Special Functions Of Mathematical Physics A Unified Introduction With Applications

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The Dirac Delta Function 159  
CHAPTER I INTRODUCTION  
The Origin of Special Functions.  
The special functions of mathematical physics arise in the solution of partial differential equations governing the behaviour of certain physical quantities.  
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the primary means of accessing the special functions of mathematical physics. A number of high level programs exist that are better suited for this purpose, including Mathematica, Maple, MATLAB, and Mathcad. The College has site licenses for several of these programs, and I let students use their program of choice.  
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#### AN INTRODUCTION TO THE CLASSICAL FUNCTIONS OF MATHEMATICAL ...

With students of Physics chiefly in mind, we have collected the material on special functions that is most important in mathematical physics and quantum mechanics. We have not attempted to provide the most extensive collection possible of information about special functions, but have set ourselves the task of finding an exposition which, based on a unified approach, ensures the possibility of applying the theory in other natural sciences, since it provides a simple and effective ...

#### Special Functions Of Mathematical Physics

the primary means of accessing the special functions of mathematical physics. A number of high level programs exist that are better suited for this purpose, including Mathematica, Maple, MATLAB, and Mathcad. The College has site licenses for several of these programs, and I let students use their program of choice.

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Lagrangian formalism is established for differential equations with special functions of mathematical physics as solutions. Formalism is based on either standard or non-standard Lagrangians. This work shows that the procedure of deriving the standard Lagrangians leads to Lagrangians for which the Euler--Lagrange equation vanishes identically ...

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we call a function "special" when the function, just as the logarithm, the exponential and trigonometric functions (the elementary transcendental functions), belongs to the toolbox of the applied mathematician, the physicist or engineer. Usually there is a particular notation, and a

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#### Special functions - Wikipedia

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Certain mathematical functions occur often enough in fields like physics and engineering to warrant special consideration. They form a class of well-studied functions with an extensive literature and, appropriately enough, are collectively called special functions.

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For information about numerical tables the reader is referred to "Mathematics of Computation", a periodical published by the American Mathematical Society; "Handbook of Mathematical Functions" with formulas, graphs and mathematical tables National Bureau of Standards Applied Mathematics Series, 55, 1964, 1046 pp., Government Printing Office, Washington, D.C., and FLETCHER, MILLER ...

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The Dirac Delta Function 159 fCHAPTER I INTRODUCTION The Origin of Special Functions. The special functions of mathematical physics arise in the solution of partial differential equations governing the behaviour of certain physical quantities.

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Special functions enable us to formulate a scientific problem by reduction such that a new, more concrete problem can be attacked within a well-structured framework, usually in the context of differential equations. A good understanding of special functions provides the capacity to

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