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NATHAN LAMBERT

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 some functions or groups of functions are
 important enough to deserve their own
 names. This is a listing of articles which

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 detail. There is a large theory of special
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 function spaces, which are infinite-
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 approximations of special functions in
 terms of, some times, elementary
 functions. The method for differential
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 established for differential equations with
 special functions of mathematical physics
 as solutions. Formalism is based on either
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 equation vanishes identically, and that
 only some of these Lagrangians become
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 Families of special functions, known from mathematical physics, are defined here by their recursion relations. The operators which raise and lower indices in these functions are considered as generators of a Lie algebra. The general element of the corresponding Lie group thus operates on the function in two ways: on the one hand it shifts the argument of the function; on the other hand it ...
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the celebrated Olver’s asymptotic *Formulas and Theorems for the Special Functions of ...*
 There are mathematical theories in which some classes of special functions appear naturally. A familiar classification is by increasing complexity, starting with polynomials and algebraic functions and progressing through the “elementary” or “lower” transcendental functions (logarithms, exponentials, sines and cosines, and so on) to the “higher” transcendental functions (Bessel ...
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 Usually, the special functions of mathematical physics are defined by means of power series representations. However, some alternative representations can be used as their definitions.
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 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 t

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Any course on mathematical methods necessarily involves a choice from a venue

of topics that could be covered. The emphasis on this course is to introduce students the special functions of mathematical physics with emphasis on those techniques that would be most useful in preparing a student to enter a program

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"This book provides an accessible and

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