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Then the Laplace transform of $F(t)$, denoted by $\mathcal{L}\{F(t)\}$, is defined by $\mathcal{L}\{F(t)\} = \int_0^{\infty} f(s) e^{-st} F(t) dt$ (1) 0 where we assume at present that the parameter s is real. Later it will be found useful to consider s complex. The Laplace transform of $F(t)$ is said to exist if the integral (1) converges for some value of s ; otherwise it does not exist.

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Laplace ...

43 The Laplace

Transform: Basic De

initions and Results 3

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44 Further Studies of
Laplace Transform 15

45 The Laplace
Transform and the

Method of Partial
Fractions 28 46

Laplace Transforms of
Periodic Functions 35

47 Convolution

Integrals 45 48 The

Dirac Delta Function

and Impulse Response

53 49 Solving Systems

of Differential Equations

Using Laplace Trans-

form 61 50 Solutions to

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Many mathematical
problems are solved
using transformations.
The idea is to
transform the problem
into another problem
that is easier to solve.
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obtained, the inverse
transform is used to
obtain the solution to

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the original problem.
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Using the Laplace transform find the solution for the following equation @2
@t2 $y(t) = f(t)$ with initial conditions $y(0) =$

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$a Dy(0) = b$ Hint.

convolution Solution.

We denote $Y(s) =$

$L(y)(t)$ the Laplace

transform $Y(s)$ of $y(t)$.

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Schaum's ... Chapter

12 Power Series

Solutions 85 ... Chapter

14 Numerical Methods

104 Chapter 15

Boundary-Value

Problems and Fourier

Series 115 Appendix

Laplace Transforms

124 Index 133 vi DIFFE

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of tables. 3. Series method. If $F(t)$ has a power series expansion given by $\sum_{n=0}^{\infty} a_n t^n$, one can obtain its Laplace transform by taking the sum of the Laplace transforms of each term in the series. Thus the Laplace transform of $1) e^{at}$ is given by $\frac{1}{s-a}$. 4. Method of ...

Methods of finding Laplace transforms and inverse ...

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Page 22/25

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for p and the other
constants, a series
solution can often be ...

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Laplace also
recognised that Joseph
Fourier 's method of

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Fourier series for solving the diffusion equation could only apply to a limited region of space because those solutions were periodic. In 1809, Laplace applied his transform to find solutions that diffused indefinitely in space. Formal definition [edit]

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