

$$\begin{aligned}
 b_n &= \frac{1}{\pi} \int_0^{2\pi} f(x) \sin nx dx \\
 &= \frac{1}{\pi} \int_0^{2\pi} x \sin nx dx \\
 &= \frac{1}{\pi} \left[ x \left( -\frac{\cos nx}{n} \right) - (1) \left( -\frac{\sin nx}{n^2} \right) \right]_0^{2\pi} \\
 &= \frac{1}{\pi} \left[ -2\pi \left( \frac{\cos n\pi}{n} \right) \right] \\
 &= -\frac{2}{n}
 \end{aligned}$$

Put  $a_0$   $a_n$   $b_n$  in equation 1

$$f(x) = \pi - 2 \sum_{n=1}^{\infty} \frac{1}{n} \sin nx$$

# Introduction To Laplace Transforms And Fourier Series

**John Bird**



## **Introduction To Laplace Transforms And Fourier Series:**

**An Introduction to Laplace Transforms and Fourier Series** P.P.G. Dyke, 2012-12-06 This book has been primarily written for the student of mathematics who is in the second year or the early part of the third year of an undergraduate course. It will also be very useful for students of engineering and the physical sciences for whom Laplace Transforms continue to be an extremely useful tool. The book demands no more than an elementary knowledge of calculus and linear algebra of the type found in many first year mathematics modules for applied subjects. For mathematics majors and specialists it is not the mathematics that will be challenging but the applications to the real world. The author is in the privileged position of having spent ten or so years outside mathematics in an engineering environment where the Laplace Transform is used in anger to solve real problems as well as spending rather more years within mathematics where accuracy and logic are of primary importance. This book is written unashamedly from the point of view of the applied mathematician. The Laplace Transform has a rather strange place in mathematics. There is no doubt that it is a topic worthy of study by applied mathematicians who have one eye on the wealth of applications; indeed it is often called Operational Calculus.

An Introduction to Laplace Transforms and Fourier Series Phil Dyke, 2014-03-24 In this book there is a strong emphasis on application with the necessary mathematical grounding. There are plenty of worked examples with all solutions provided. This enlarged new edition includes generalised Fourier series and a completely new chapter on wavelets. Only knowledge of elementary trigonometry and calculus are required as prerequisites. **An Introduction to Laplace Transforms and Fourier Series** will be useful for second and third year undergraduate students in engineering, physics or mathematics as well as for graduates in any discipline such as financial mathematics, econometrics and biological modelling requiring techniques for solving initial value problems.

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solution techniques for first order second order linear partial differential equations for general solutions fundamental solutions solution to Cauchy initial value problems and boundary value problems for different PDEs in one and two dimensions and different coordinates systems Analytic solutions to boundary value problems are based on Sturm Liouville eigenvalue problems and series solutions The book is accompanied with enough well tested Maple files and some Matlab codes that are available online The use of Maple makes the complicated series solution simple interactive and visible These features distinguish the book from other textbooks available in the related area

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analysis an introduction to partial fraction expansions an exploration of time domain techniques for solving differential equations and information on online video lecture content for material covered in the book Throughout the book many worked through examples are provided Problem sets are also provided for each major topic covered

**Introduction to Applied Mathematics** Lawrence Sirovich, 2013-11-21 From the Preface The material in this book is based on notes for a course which I gave several times at Brown University The target of the course was juniors and seniors majoring in applied mathematics engineering and other sciences My basic goal in the course was to teach standard methods or what I regard as a basic bag of tricks In my opinion the material contained here for the most part does not depart widely from traditional subject matter One such departure is the discussion of discrete linear systems Besides being interesting in its own right this topic is included because the treatment of such systems leads naturally to the use of discrete Fourier series discrete Fourier transforms and their extension the Z transform On making the transition to continuous systems we derive their continuous analogues viz Fourier series Fourier transforms Fourier integrals and Laplace transforms A main advantage to the approach taken is that a wide variety of techniques are seen to result from one or two very simple but central ideas Above all this course is intended as being one which gives the student a can do frame of mind about mathematics Students should be given confidence in using mathematics and not be made fearful of it I have therefore forgone the theorem proof format for a more informal style Finally a concerted effort was made to present an assortment of examples from diverse applications with the hope of attracting the interest of the student and an equally dedicated effort was made to be kind to the reader

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