



# An Introduction to Laplace Transforms and Fourier Series (Springer Undergraduate Mathematics Series)

By Phil Dyke

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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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### **Editorial Review**

From the Back Cover

Laplace transforms continue to be a very important tool for the engineer, physicist and applied mathematician. They are also now useful to financial, economic and biological modellers as these disciplines become more quantitative. Any problem that has underlying linearity and with solution based on initial values can be expressed as an appropriate differential equation and hence be solved using Laplace transforms.

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#### **About the Author**

Phil Dyke has over 40 years experience teaching at UK Universities, and for the past 6 years has based a course on the subject of this book. He has also used Laplace transforms and Fourier methods in his research. He has been a professor of applied mathematics at Plymouth University for over 20 years.

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