



Introduction to Linear Circuit Analysis and Modelling: From DC to RF

By Luis Moura, Izzat Darwazeh

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Introduction to Linear Circuit Analysis and Modelling: From DC to RF By Luis Moura, Izzat Darwazeh

Luis Moura and Izzat Darwazeh introduce linear circuit modelling and analysis applied to both electrical and electronic circuits, starting with DC and progressing up to RF, considering noise analysis along the way.

Avoiding the tendency of current textbooks to focus either on the basic electrical circuit analysis theory (DC and low frequency AC frequency range), on RF circuit analysis theory, or on noise analysis, the authors combine these subjects into the one volume to provide a comprehensive set of the main techniques for the analysis of electric circuits in these areas.

Taking the subject from a modelling angle, this text brings together the most common and traditional circuit analysis techniques (e.g. phasor analysis) with system and signal theory (e.g. the concept of system and transfer function), so students can apply the theory for analysis, as well as modelling of noise, in a broad range of electronic circuits.

A highly student-focused text, each chapter contains exercises, worked examples and end of chapter problems, with an additional glossary and bibliography for reference. A balance between concepts and applications is maintained throughout.

Luis Moura is a Lecturer in Electronics at the University of Algarve. Izzat Darwazeh is Senior Lecturer in Telecommunications at University College, London, previously at UMIST.

- An innovative approach fully integrates the topics of electrical and RF circuits, and noise analysis, with circuit modelling
- Highly student-focused, the text includes exercises and worked examples throughout, along with end of chapter problems to put theory into practice

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Editorial Review

Review

"This text can be very useful. It is easy to read, despite its richness and comprehensiveness. In this one book, you will find what you'd normally find in three:

- Linear circuit analysis
- Two-ports and amplifiers, and a description of active devices
- Good treatment of RF and noise."
- Maria Flora Torretta, Electronics World, December 2005

From the Back Cover

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Avoiding the tendency of current textbooks to focus on one area, the authors combine basic electrical circuit analysis theory, RF circuit analysis theory and noise analysis into one volume, providing a comprehensive coverage of the main techniques for analysis of electric circuits.

Taking the subject from a modelling angle, this text brings together the most common and traditional circuit analysis techniques (e.g. phasor analysis) with system and signal theory (e.g. the concept of system and transfer function), so that students can apply the theory for analysis and modelling of noise to a broad range of electronic circuits.

A highly student-focused text, each chapter contains exercises, worked examples and end-of-chapter problems, with an additional glossary and bibliography for reference. A balance between concepts and applications is maintained throughout.

The book is also supported by a companion website, featuring a full solutions manual, additional equations, teaching aids and exercises using MATLAB to aid student learning.

Luis Moura is a Lecturer in Electronics at the University of Algarve.

Izzat Darwazeh is a Reader in Telecommunications at University College, London, previously at UMIST.

About the Author

Izzat Darwazeh is the Chair of Communications Engineering in University College London (UCL) and head of UCL's Communications and Information Systems Group. He is an electrical engineering graduate of the University of Jordan and holds the MSc and PhD degrees from the University of Manchester in the UK. He has been teaching and active in microwave circuit design and communications circuits and systems research since 1991. He has published over 250 scientific papers and is the co-editor of the 1995 IEE book on Analogue Fibre Communications and of the 2008 Elsevier-Newness book on Electrical Engineering. He is also the co-author (with Luis Moura) of the 2005 book on Linear Circuit Analysis and Modelling. He currently teaches mobile and wireless communications and circuit design and his current research interests are in ultra high-speed microwave circuits and in wireless and optical communication systems. In addition to his teaching, Professor Darwazeh acts as a consultant to various engineering firms and government, financial and legal entities in the UK and worldwide. Professor Darwazeh is a Chartered Engineer and Fellow the Institute of Engineering and Technology (FIET).

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