The Institution of Engineering and Technology

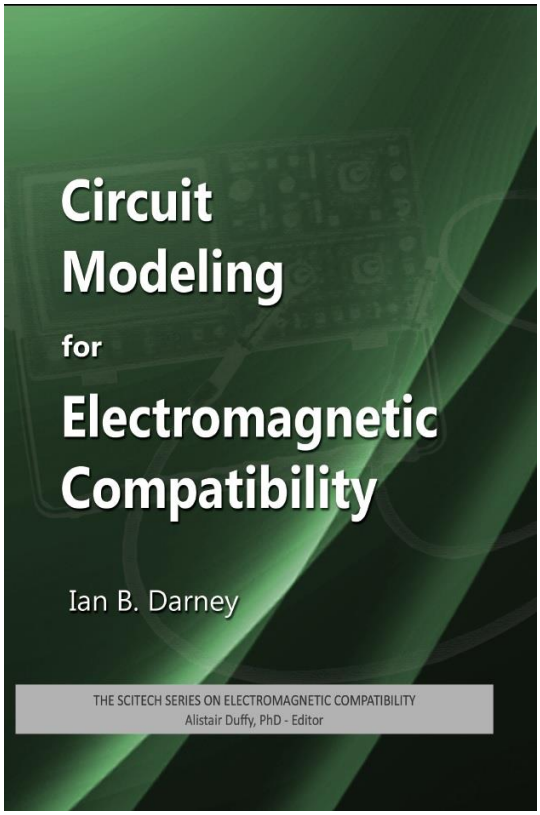
ADVANCE BOOK INFORMATION

CIRCUIT MODELING FOR ELECTROMAGNETIC COMPATABILITY

IAN DARNEY

This book shows how the analytic tools of circuit theory can be used to simulate the coupling of interference into, and out of, any signal link in the system being reviewed. The technique is simple, systematic and accurate. It enables the design of any equipment to be tailored to meet EMC requirements.

- Fully outlines systematic and dramatically simplified process of designing equipment to meet EMC requirements.
- Focuses on simplifications which enable electrical engineers to singularly handle EMC problems.
- Helps minimise time-to-market of new products and reduces the need for costly and time-consuming modifications.
- Outlines how general purpose test equipment (oscilloscopes and signal generators) can be used to validate and refine any model.
- Discusses how to use Mathcad or MATLAB® to perform analysis and assessment.



READERSHIP

Ideal for designers of electronic equipment, power distribution engineers, communication equipment designers, project managers, EMC consultants, and students/lecturers/researchers in electrical engineering.

AUTHOR INFORMATION

After achieving a BSc degree in Electrical Engineering at the University of Glasgow in 1960, Ian Darney joined the Guided Weapons Division of British Aerospace and worked on the circuit design of equipment for missiles, ground equipment, submersibles, and spacecraft. He was a member of the European Organisation for Civil Aviation Equipment (EUROCAE) committee and after his retirement, he has continued to work as an EMC consultant, has written two technical papers and numerous magazine articles on EMC.

ISBN:	**978-1-61353-020-7**
Product code:	**SBEW5020**
BIC Codes:	**TJ**
Price:	**£58 / $95**
Size (mm):	**178 x 254**
Extent:	**312pp**
Format:	**Hardback**
Published:	**2013**
Rights:	**World – all languages**

www.theiet.org/books

To place an order or to request further information, contact Alex Fox, IET Books Sales Manager

T: 01438 7677655