



# Circuit Analysis with PSpice: A Simplified Approach

By Nassir H. Sabah

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Electric circuits, and their electronic circuit extensions, are found in all electrical and electronic equipment; including: household equipment, lighting, heating, air conditioning, control systems in both homes and commercial buildings, computers, consumer electronics, and means of transportation, such as cars, buses, trains, ships, and airplanes. Electric circuit analysis is essential for designing all these systems.

Electric circuit analysis is a foundation for all hardware courses taken by students in electrical engineering and allied fields, such as electronics, computer hardware, communications and control systems, and electric power. This book is intended to help students master basic electric circuit analysis, as an essential component of their professional education. Furthermore, the objective of this book is to approach circuit analysis by developing a sound understanding of fundamentals and a problem-solving methodology that encourages critical thinking.

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#### About the Author

Nassir Sabah is a Professor of Electrical and Computer Engineering at the American University of Beirut, Lebanon. He received his B.Sc. (Hons. Class I) and his M.Sc. in Electrical Engineering from the University of Birmingham, U.K., and his Ph.D. in biophysical sciences from the State University of New York (SUNY/Buffalo). He has served as Chairman of the Electrical Engineering Department, Director of the Institute of Computer Studies, and Dean of the Faculty of Engineering and Architecture, at the American University of Beirut. In these capacities, he was responsible for the development of programs, curricula, and courses in electrical, biomedical, communications, and computer engineering. Professor Sabah has extensive professional experience in the fields of electrical engineering, electronics, and computer systems, with more than 35 years teaching experience in electric circuits, electronics, neuroengineering, and biomedical engineering. He has over 100 technical publications, mainly in neurophysiology, biophysics, and biomedical instrumentation. He has served on numerous committees and panels in Lebanon and the region. Professor Sabah is a Fellow of the IET, U.K., and a member of the American Society of Engineering Education.

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