

Citation for Professor Emeritus Robert G. Meyer

Professor Robert G. Meyer graduated with a Bachelor of Electrical Engineering with First Class Honours from the University of Melbourne in 1963. In 1965, he was awarded the degree of Master of Engineering Science with Honours for his thesis entitled "Evaluation of Noise Parameters of Bipolar and Field-effect Transistors". Professor Meyer received the PhD degree from the University of Melbourne in 1968 for his thesis entitled "Signal and Noise Performance of Transistor Mixers". In recognition of this seminal contribution to the deep understanding of signal and noise characteristics of transistor mixers and the importance of this contribution to the development of electronic integrated circuits, Professor Meyer received the 1968 J.J. Thomson Premium from the Institution of Electrical Engineers, established in memory of Sir J.J. Thomson's contributions in discovering the electron and laying the foundations of modern electronics. In 2003, he was recognized for his excellent contributions to graduate teaching in the area of integrated electronic circuits and systems by the Institute of Electrical and Electronic Engineering (IEEE) through its Leon K. Kirchmayer Graduate Teaching Award, awarded only to those who have made exceptional contributions to graduate teaching based on excellence, research-inspired curriculum development reflecting the state-of-the-art, and direction of students towards effective careers in engineering and the sciences. He has supervised twenty-five PhD students to completion and many of them are current leaders in the field of electronic engineering both in academia and industry.

Professor Meyer started his academic career as an Assistant Lecturer with the Department of Electrical and Electronic Engineering, the University of Melbourne, in January 1968. In September 1968, he took up an academic appointment with the Department of Electrical Engineering and Computer Sciences, the University of California, Berkeley. Professor Meyer is now National Semiconductor Distinguished Professor Emeritus with the same department.

Professor Meyer has made pioneering contributions to the development of the theory, design and practice of integrated electronic circuits, from the early days of the electronic engineering industry to modern system-on-a-chip technologies. His current research interests are integrated-circuit design and device fabrication, with particular emphasis on nonlinear phenomena and noise performance. His early leadership in the deep understanding of noise performance of electronic circuits lead to the authoritative book entitled "Analysis and Design of Analog Integrated Circuits", (Wiley, 1977, 1984, 1993, 2001, 2009). To this date, this book remains a bible for those who undertake undergraduate and graduate programs in integrated circuits, has been translated into eight languages and has sold several hundred thousand copies worldwide. During his career, he has edited, co-edited and co-authored a number of books on integrated circuits, and published numerous research papers on the subject. He has been a leading consultant to a number of electronics companies over the last five decades and has designed numerous commercial integrated circuits, selling hundreds of millions of units. He holds five U.S. patents.

Professor Meyer has earned an international reputation as a leading authority in integrated-circuit technologies. He is a Past President of the IEEE Solid-State Circuits Council. He has been the Guest Editor of many special issues of the IEEE Journal of Solid-State Circuits and has also been an Associate Editor of both the IEEE Journal of Solid-State Circuits as well as the IEEE Transactions on Circuits and Systems for an extensive period.