

Prof. Paul J Tasker joined Cardiff University in 1995. His research addresses the problems encountered in the field of non-linear RF and microwave circuit design. These activities have, to date, focused mainly on the design, modeling and characterization of non-linear RF and microwave transistors and power amplifier circuits.

In 1976 Paul went to study Physics and Electronics at the University of Leeds, obtaining a Combined Studies BSc Degree with First Class Honors in 1979. He remained at Leeds University, obtaining a PhD from the Department of Electrical and Electronic Engineering in December 1983. Prior to his present appointment he was a Senior Research Associate at Cornell University, Ithaca, NY, USA and then a project manager at the Fraunhofer Institute for Applied Solid State Physics (IAF), Freiburg, Germany. At Cornell University he managed research programs in the areas of fabrication, design, characterization and modeling of compound semiconductor devices. At the IAF he established and managed research programs responsible for (i) the development, characterization and optimization of short gate length compound semiconductor devices and (ii) the development, design and characterization of high power microwave MMICs and low noise millimeter-wave MMICs.

Paul has expertise in the areas of fabrication, design and characterization of high frequency (microwave and millimeter wave) compound semiconductor electronic and optoelectronic devices and circuits. He has developed a number of microwave and millimeter wave, s-parameters, noise parameters and non-linear parameter, measurement systems and as a result of this work he has contributed to over 100 technical papers and publications including two book chapters.

He has acted as a consultant to various major USA industries, GE, MSC, AT&T Bell Laboratories, Alpha, Martin Marietta, Siemens, NESI, EG&G Princeton Applied Research and Hewlett Packard.

He is a Fellow of the IET and a Senior Member of the IEEE.