

2008 Microwave Application Award

Dr. Steve C. Cripps

The Microwave Application Award recognizes an individual or team of not more than three persons for outstanding application of microwave theory and techniques.



Dr. Steve C. Cripps *“For creation of an industry standard for design of broadband solid-state power amplifiers.”*

Dr. Cripps obtained his Ph.D. degree from Cambridge University, England, in 1975. He worked for Plessey Research on GaAs FET hybrid circuit development, and in 1981 he joined Watkins-Johnson’s solid-state division, Palo Alto, California. He held various management and engineering positions at WJ, Loral, and Celeritek. During this period, he was active in the design of broadband amplifiers for the ECM market, in particular form-fit-function replacements for TWTs. He designed the industry’s first 2–8 GHz and 6-18 GHz 1-W solid-state amplifiers, and in 1983 published a technique for the a priori design of microwave power amplifier design, which has become widely adopted in the industry. In 1990, Dr. Cripps became an independent consultant and was active in a variety of commercial RF product developments, including the design of several cellular telephone power amplifier MMIC products. In 1996, he returned to England, where his attentions have been focused on design and linearization techniques for high-power cellular phone base station PAs.

Dr. Cripps is the author of three bestselling books on RF power amplifiers and writes the “Microwave Bytes” column in IEEE Microwave Magazine. He teaches industrial training courses on RF power amplifier design, both in Europe and in the United States.