**Overview of Microstrip Antennas**

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**Abstract**

Microstrip antennas are one of the most popular types of antennas in use today. Invented in the 1970s, they continue to be one of the most widely used antennas due to their many advantages, including being low profile, planar, easy to manufacture, and compatible with printed-circuit technology. In this tutorial the basic properties of microstrip antennas will be overviewed, and the physical principles of operation will be examined, for both linear and circular polarizaton. Various CAD formulas will be presented to aid in understanding the properties of the microstrip antennas, and in designing them. Different models for predicting the radiation patterns and input impedance will also be discussed. Some of the latest trends will also be explored, such as increasing the bandwidth, miniaturizing the antenna size, and reducing surface-wave and lateral-wave excitation.

**Biography**

****David R. Jackson obtained the B.S.E.E. and M.S.E.E. degrees from the University of Missouri, Columbia, in 1979 and 1981, respectively, and the Ph.D. degree in electrical engineering from the University of California, Los Angeles, in 1985. He is a Professor in the Department of ECE at the University of Houston, where he has been since 1985. He is a Fellow of the IEEE, and his present research interests include microstrip antennas and circuits, leaky-wave antennas, and electromagnetic compatibility and interference. From 2015-2018 he served as the Chair of USNC-URSI. Previously, he has been chair of the Distinguished Lecturer Committee of the IEEE AP-S, the chair of the Transnational Committee of the IEEE AP-S, the chair of the Chapter Activities Committee of the AP-S, a Distinguished Lecturer for the AP-S, a member of the AdCom for the AP-S, and an Associate Editor for the IEEE Transactions on Antennas and Propagation. He is presently serving on the IEEE AP-S COPE committee (COmmittee for Promoting Equality).