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Planar transmission lines are transmission lines with conductors, or in some cases dielectric strips, that are flat, ribbon-shaped

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lines. They are used to interconnect components on printed circuits and integrated circuits working at microwave frequencies because the planar type fits in well with the manufacturing methods for these components. Transmission lines are more than simply interconnections. With simple interconnections, the propagation of the electromagnetic wave along the wire is fast

## **Planar transmission line - Wikipedia**

Kashif Saeed, Muhammad F. Shafique, Matthew B. Byrne and Ian C. Hunter (February 24th 2012). Planar Microwave Sensors for Complex Permittivity Characterization of Materials and Their Applications, Applied Measurement Systems, Md. Zahurul Haq, IntechOpen, DOI: 10.5772/36302. Available from: <https://www.intechopen.com/books/applied-measurement-systems/planar-microwave-sensors-for-complex-permittivity-characterization-of-materials-and-their-applicatio>.

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The students are to perform several basic design experiments. These design experiments include the design of matching and tuning stubs for microwave applications, as well as design, construction, and testing of planar geometry striplines, filters, power dividers, couplers, etc.

## **ECE 4104 Microwave and RF Engineering | ECE | Virginia Tech**

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## **Greg Mau - President - Custom Microwave Components, Inc ...**

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He holds approximately 70 U.S. patents and authored *The Design of CMOS Radio-Frequency Integrated Circuits* (now in its second edition) and *Planar Microwave Engineering*, both with Cambridge University Press. He is a co-author of four additional books on RF circuit design, and also cofounded Matrix Semiconductor (acquired by Sandisk in 2006).

## **SMIRc Lab - People**

He holds 57 U.S. patents and authored *The Design of CMOS Radio-Frequency Integrated Circuits* (now in its second edition), and *Planar Microwave Engineering*, both with Cambridge University Press. He is a co-author of four additional books on RF circuit design, and also cofounded Matrix Semiconductor (acquired by Sandisk in 2006).

## **Thomas H. Lee - CHIC**

To demonstrate the use of the planar filter design approach, an example filter will be designed and fabricated. The design goal is a relatively narrow bandpass filter centered at 14.5 GHz, with more than 40 dB rejection at the image frequencies, i.e., at 13.0 and 16.7 GHz.

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