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Passive Planar Microwave Devices

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Message from the Guest Editors

Passive planar circuits play a key role in many RF/microwave applications, such as wireless communications, medical instrumentation, and remote sensing. Planar technologies were born during World War II but their use did not became popular until the 1960s. Since then, the use of classical planar structures, such as striplines, microstrips, and coplanar waveguides, in high-frequency applications has drastically increased, becoming indispensable elements if devices with low weight and low cost are critical. Even today, new planar technologies are still being investigated and developed as evidenced by the most recent Substrate-Integrated Waveguide (SIW) structure. This Special Issue is focused on highlighting recent contributions on microwave devices developed on planar technologies, and encourages original contributions related, but not limited to, the following topics:

1. two-port circuits, such as filters;
2. multiport circuits, such as dividers, combiners, couplers, and multiplexers;
3. microwave sensors; and
4. antennas.

Keywords: microwave; microstrip; stripline; coplanar waveguide; substrate-integrated waveguide (SIW); planar circuit; antenna; sensoring.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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