

# Abstracts

## A Mono-Control Microwave Semiconductor Switch

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*J.C. Hoover. "A Mono-Control Microwave Semiconductor Switch." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 204-208.*

The circuit shown in Fig. 1 has the useful property that the impedance looking into the input remains matched if the two outputs are terminated in matched loads regardless of the value of  $Z$ , whether it be reactive, real or even negative. This statement is conditional on the requirement that the value of  $Z$  be identical in two locations. The division of power to the two outputs is not independent of  $Z$  but is controlled by it. Obviously, if  $Z$  is reduced to zero, output #1 will be shorted out and no power will appear at that port. In the converse, if  $Z$  is infinite, output #2 is shorted out by the open-circuited quarter-wavelength stub.

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