



Klystrons, Traveling Wave Tubes, Magnetrons, Cross-Field Amplifiers, and Gyrotrons (Artech House Microwave Library)

By A. S. Gilmour

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Microwave tubes are vacuum electron devices used for the generation and amplification of radio frequencies in the microwave range. An established technology area, the use of tubes remains essential in the field today for high-power applications. The culmination of the author's 50 years of industry experience, this authoritative resource offers you a thorough understanding of the operations and major classes of microwave tubes. Minimizing the use of advanced mathematics, the book places emphasis on clear qualitative explanations of phenomena. This practical reference serves as an excellent introduction for newcomers to the field and offers established tube engineers a comprehensive refresher. Professionals find coverage of all major tube classifications, including klystrons, traveling wave tubes (TWTs), magnetrons, cross field amplifiers, and gyrotrons.

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Editorial Review

About the Author

A.S. Gilmour, Jr. is a professor emeritus in the Electrical and Computer Engineering Department at the State University of New York, Buffalo. He is a well-published author of books, journal articles, and conference proceedings, and has numerous patents to his credit. He received his B.S., M.S. and Ph.D. in electrical engineering from Cornell University.

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