

Abstracts

Electrically Controllable Liquid Artificial Dielectric Media

H.T. Buscher. "Electrically Controllable Liquid Artificial Dielectric Media." 1979 Transactions on Microwave Theory and Techniques 27.5 (May 1979 [T-MTT] (Special Issue on Solid-State Microwave/Millimeter-Wave Power Generation, Amplification, and Control)): 540-545.

New work is reported on electric field controlled liquid dielectrics demonstrating their application in control devices at 35 and 95 GHz. Liquid artificial dielectric design approaches and performance prediction are also discussed, with emphasis on electronic beam steering of millimeter-wave antennas. References are included listing much of the prior work done in this area.

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