

Abstracts

The Three-Level Solid-State Maser

H.E.D. Scovil. "The Three-Level Solid-State Maser." 1958 Transactions on Microwave Theory and Techniques 6.1 (Jan. 1958 [T-MTT]): 29-38.

This article gives an introduction to amplification by solid-state maser techniques. Emphasis is placed on the three-level solid-state maser. The relevant physical properties of paramagnetic salts are discussed. The basis of the three-level excitation method is reviewed. Some design considerations are given. The design and performance characteristics of a particular device are mentioned.

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