Abstracts

Magnetostatic Forward Volume Wave Reflection Characteristics of a Shallow Grooved Grating on a YIG Film

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The magnetostatic forward volume wave (MSFVW) reflection characteristics of a uniform grating of shallow grooves etched on the planar surface of an epitaxial YIG film are treated using an approach which integrates field theory with the coupled mode approach. The MSFVW reflection per groove is found to be significantly large considering that the volume waves are reflected by surface-localized and shallow grooves.

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