

WAVES WITH NEGATIVE GROUP VELOCITY.
CONDITIONS OF THEIR EXISTENCE
IN A ISOTROPIC MEDIUM

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S u m m a r y

The analysis of the frequency and spatial dispersions of the dielectric permittivity and magnetic permeability of an isotropic medium are carried out in the $(\vec{E}, \vec{B}, \vec{D})$ and $(\vec{E}, \vec{B}, \vec{D}, \vec{H})$ approaches of electrodynamics. The conditions under which the phase and group velocities of transverse electromagnetic waves have opposite directions are clarified, and the consequences arised are discussed.