

## A NOTE ON ENERGY VELOCITY OF ELECTROMAGNETIC SIGNALS

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## **Abstract**

The energy velocity of electromagnetic signals represents the velocity of transmission of the information conveyed by these signals. This concept, sometimes neglected on behalf of group velocity, has recently received a considerable attention since it fulfills the causality condition imposed by Relativity. This paper presents an analysis of energy velocity for electromagnetic pulses propagating in dispersive dielectrics.

**Keywords and phrases:** electromagnetic signal, energy velocity, dispersive dielectric, finite energy pulse.

