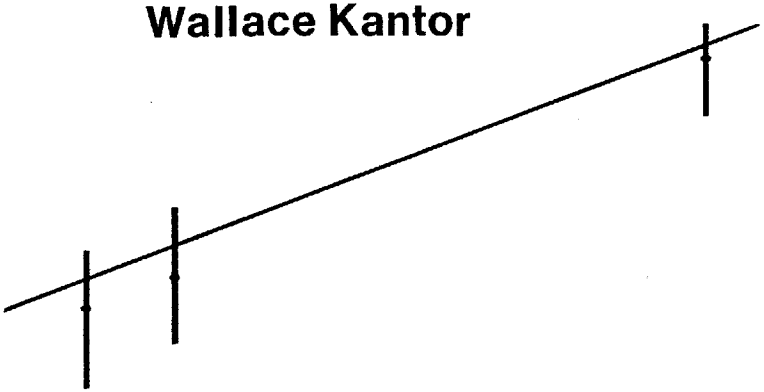
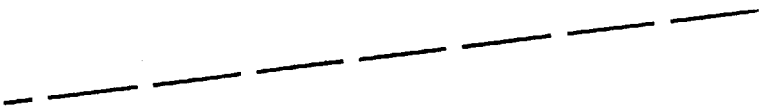
Wallace Kantor



RELATIVISTIC PROPAGATION OF LIGHT



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PREFACE

This monograph presents, in one convenient place, a critical examination of the immediately relevant *experimental* evidence in the *kinematics* of the special theory of relativity and the old luminiferous ether theory. The result is surprising; there is no *kinematic experimental* support for either of these theories. There is, instead, considerable unrecognized *experimental* evidence, both qualitative and quantitative, that contradicts these theories.

There is *experimental* evidence to an accuracy of one or two percent showing that the speed of light does actually depend on the motion of its source at the time of its emission from the moving source.

There is *experimental* evidence showing that the speed of light in certain physical situations does exceed the vacuum-speed of light emitted from a stationary source.

There is the only valid first-order *experimental* evidence that the speed of light skew-convected by a flowing fluid is found to conform to the classical (etherless) addition of speeds, and *not* the Einstein "addition" of speeds; the ether theory Fresnel convection coefficient is also thereby *experimentally* contradicted.

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