Electrodynamics of Moving Media

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On the basis of the Minkowski formulation, the total energy-momentum tensor of a system consisting of matter and electromagnetic fields is derived from the macroscopic theory. The analysis of this tensor shows that the electromagnetic fields supply the matter with momentum and energy. Consequently, the electromagnetic part and the material part overlap each other in the total energy-momentum tensor. Hence it is impossible to divide the total energy-momentum tensor into an electromagnetic tensor and a material tensor.

In a closed system, in general, only the total energy-momentum tensor has physical significance and can be defined.

Further, the generalized force which acts on the matter is obtained and interpreted clearly,

L. Introduction

Electrodynamics of moving media has been discussed by a large number of investigators for long years, and until the present many different forms of an electromagnetic energy-momentum tensor within media have been put forward 1-4. However, no form is universally accepted, although Minkowski's tensor is the most well-known and widely used of them 5.

The present paper develops Møller's theory of an elastic body and analyzes, on the basis of the Minkowski formulation, a system consisting of matter and electromagnetic fields. The effect of the electromagnetic fields on the matter is revealed. Further, the generalized force which acts on the matter is obtained and interpreted clearly.

For the sake of simplicity, only isotropic and nondispersive media with linear constitutive relations are considered. Further, the summation convention is used. The Latin subscripts assume the values 1, 2, 3, 4, whereas the Greek subscripts assume the values 1, 2, 3.

II. The Lorentz Force, the Joule Heat, and the Electrostriction and Magnetostriction Forces

In the first place, the force per unit volume that acts on stationary media in stationary electromagnetic fields is considered. If the elastic force is left out of consideration, it is given by ^{7.8}

$$I_{stat} = \varrho \mathbf{E} + \mathbf{J} \times \mathbf{B}$$

= $\frac{1}{2} E^2 \operatorname{grad} e - \frac{1}{2} H^2 \operatorname{grad} \mu + \operatorname{div}^2 \sigma$, (1)

Reprint requests to Yasayoshi Horibata, Institute of Space and Aeronautical Science, University of Tokyo, Komaba, Megaro-ku, Tokyo, Japan. where g and J are the true charge and current densities. The last term in (1) is the vector whose components are

$$(\operatorname{div}^{2}\sigma)_{\alpha} = \Im \sigma_{\alpha\beta}/\Im x_{\beta}$$
, (2)

where

$$\sigma_{\alpha\beta} = -\frac{1}{2} a_1 E_{\alpha} E_{\beta} - \frac{1}{2} a_2 E^2 \delta_{\alpha\beta} - \frac{1}{2} b_1 H_{\alpha} H_{\beta} - \frac{1}{2} b_{\alpha} H^2 \delta_{\alpha\beta};$$
 (3)

the Kronecker symbol is denoted by δ_{nd} . The coefficients a_1 and a_2 in (3) represent the rate of change due to the strains of the permittivity ϵ of the medium, whereas b_1 and b_2 represent that of the permeability μ .

Note that the last term in (1) is quite different from the other terms in nature. It represents the electrostriction and magnetostriction forces; these act as surface forces, because $\sigma_{n\beta}$ represents the internal stresses which occur to evoke the strains. In contrast with it, the first four terms in (1) represent the Lorentz force, which acts as a volume force.

Even in the general case of time-dependent fields, only the Lorentz force and the electrostriction and magnetostriction forces act immediately on the medium. Moreover if the fields do not vary rapidly, it may be assumed that the Lorentz force and the electrostriction and magnetostriction forces are represented by (1). The generalized force is discussed in detail in Section VI.

Next the case in which media are moving with a constant velocity v is considered. The following identity is generated from Minkowski's field equations by the tensor manipulation 9:

$$f_i^* = -\partial S_{ik}/\partial x_k$$
, (4)

where

$$f_i^* = F_{ii} J_i + \frac{1}{4} \left(F_{ki} \frac{\partial H_{ki}}{\partial x_i} - \frac{\partial F_{ki}}{\partial x_i} H_{ki} \right),$$
 (5)

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National Research Council (U.S.).
Committee on electrodynamics of moving media, William Francis Gray Swann, John Torrence Tate, Harry Bateman

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Electrodynamics of Moving Media National Research Council (U.S.). Committee on electrodynamics of moving media, William Francis Gray Swann, John Torrence Tate, Harry Bateman, 1922 Models of Particles and Moving Media Donald Dunn, 2012-12-02 Models of Particles and Moving Media deals with the use of mathematical models to study electrical interactions with moving particles and moving media Topics covered range from space time and the Galilean transformation to the Lorentz transformation of time and space and of Maxwell's equations Forces and wave interaction with uniformly moving circuits and continua are also considered along with non uniform motion of charged particles in prescribed electric and magnetic fields Comprised of seven chapters this book begins with an overview of some of the ways in which motion can be described with particular reference to the concept of space time and the Galilean transformation The discussion then turns to the Lorentz transformation of time and space giving emphasis on the transformation of coordinates time dilation and the Lorentz contraction and conservation of mass and energy After an analysis of the Lorentz transformation of Maxwell s equations forces and wave interaction with uniformly moving circuits and continua are reviewed along with non uniform motion of charged particles in prescribed electric and magnetic fields The book concludes by describing the use of the Lagrangian model and the Eulerian model to determine the motion of many interacting particles and the motion of charged and conducting fluids respectively This monograph is written primarily for students and researchers in the fields of mathematics and physics **Electrodynamics of Moving Media** National Research Council (U.S.). Committee on electrodynamics of moving media, William Francis Gray Swann, John Torrence Tate, Harry Bateman, 1922

ELECTROMAGNETISM IN MOVING, CONDUCTING MEDIA. RUDOLPH MORTON KALAFUS,1966

Superconductivity Shu-Ang Zhou,1999-07-23 Die Elektrodynamik von Festk rpern ist ein interdisziplin r angelegtes Thema zu dem elektromagnetische Ph nomene mechanische Bewegungen und Verformungen sowie W rmeleitungen in festen Stoffen gleicherma en beitragen Dieses einf hrende und dennoch umfassende Lehrbuch zur Theorie der Elektrodynamik und Halbleitertechnik richtet sich an Physiker ebenso wie an Elektrotechniker Maschinenbauer und Studenten der einschl gigen Fachrichtungen 08 99 Electrodynamics Masud Chaichian, Ioan Merches, Daniel Radu, Anca Tureanu, 2016-10-31 This book is devoted to the fundamentals of classical electrodynamics one of the most beautiful and productive theories in physics A general survey on the applicability of physical theories shows that only few theories can be compared to electrodynamics Essentially all electric and electronic devices used around the world are based on the theory of electromagnetism It was Maxwell who created for the first time a unified description of the electric and magnetic phenomena in his electromagnetic field theory Remarkably Maxwell s theory contained in itself also the relativistic invariance of the special relativity a fact which was discovered only a few decades later The present book is an outcome of the authors teaching experience over many

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