

## The order of the book:

Smulsky J.J. **Electrodynamics of moving bodies. Determination of forces and calculation of movements.** Saarbrucken, Germany: "Palmarium Academic Publishing", 2014. 324 p. ISBN 978-3-659-98421-1. (In Russian)



## Abstract

Unlike Einstein's article "On the Electrodynamics of Moving Bodies" (1905) this book examines the interaction and movement of charged and magnetized bodies without involving hypotheses. The forces of interaction of a moving charge with motionless charges and magnetized bodies are deduced on the basis of the empirical laws of electromagnetism. It is obtained new fundamental trajectories of moving objects in the micro-world. As a result of the research it is found that the electromagnetic forces between the bodies, dependent on both the distance between the bodies and their relative velocity. Hypothesis about the dependence of body mass, as well as space and time on the velocity of the bodies was untenable. In the Preface of the book and its chapters it is considered the main problems of the contemporary scientific picture of the world due to this hypothesis. The Introduction of the book, as well as its chapters analyzed the electrodynamics late 19th century, which led to the emergence of false hypotheses. The book will be useful to physicists, students, high school students and all those interested in the scientific picture of the world.

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