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ELECTRODYNAMICS AND THERMODYNAMICS FROM OBSERVER'S MATHEMATICS POINT OF VIEW

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Electrodynamics and Thermodynamics from Observer's Mathematics point of view

In this book we continue to consider Observer's Mathematics applications to di ferent areas of contemporary physics. Now we develop Observer's Mathematics ap plications to electromagnetism and thermodynamics.
First we give short introduction to arithmetic operations in Observer's Mathematic and then go to the Maxwell equations in electrodynamics and thermodynamics. A it is usually happened with Observer's Mathematics applications we immediate] get the probabilistic process, without any apriori assumptions. And from Observer Mathematics point of view Maxwell equations become equations with random var ables. We research various characteristics of these equations, including their invar ance (for electrodynamics) under Lorentz transformation. Sure, and Lorentz trans formation we consider also from Observer's Mathematics point of view. We prove that Maxwell electrodynamic equations in Observer's Mathematics are invariar under Observer's Mathematics Lorentz transformation in sense that they have th same expression in different inertial system of coordinates, but difference is only i random summands having different distribution functions.

ОГЛАВЛЕНИЕ