



METADATA

Title: Electronic Book Laboratory Exercises in Physics I

Other Titles: -

Language: Greek

ISBN: 978-960-603-095-6

Subject: NATURAL SCIENCES AND AGRICULTURAL SCIENCES

Keywords: Velocity / Acceleration / Momentum / Impetus / Thermal expansion

Bibliographic Reference: Bertachas, I., Tzanakis, G., Michelaki, P., & Pavlakis, K. (2015). Electronic Book Laboratory Exercises in Physics I [Laboratory Guide]. Kallipos, Open Academic Editions. <http://dx.doi.org/10.57713/kallipos-940>

Abstract

This book is addressed to undergraduate students who attend physics laboratories that mainly deal with mechanics and heat. All the laboratory exercises taught in the physics I laboratories of TEI of Crete, Department of Mechanical Engineering are included in this book. It can therefore be used in all the corresponding departments of TEI as well as in similar ones such as the departments of Electrical Engineering. The exercises that exist refer to: error theory and the way of presenting measurements and to the

use of basic instruments and tools. They also refer to the creation of graphs. to the basic concepts of heat, measurement of coefficient of thermal expansion and to the measurement of specific heat. Apart from this they are referred to the mechanical concepts and measurements of velocity, acceleration, acceleration of gravity, momentum, thrust, energy, friction coefficient, moment of inertia. In many exercises the measurements are taken with a sensor and processed with a suitable program (Data studio).

