A. E. Davletov L. T. Yerimbetova

ELECTRICITY AND MAGNETISM

Course of lectures

Almaty 2015

AL-FARABI KAZAKH NATIONAL UNIVERSITY

A. E. Davletov L. T. Yerimbetova

ELECTRICITY AND MAGNETISM

Course of lectures

Almaty «Kazakh University» 2015 Recommended for publishing by Scientific Council of the physical and technical faculty and the Editorial-Publishing Board of Al-Farabi Kazakh National University

Reviewers:

Doctor of physical and mathematical sciences, Professor **Prikhodko O.Yu.** Doctor of physical and mathematical sciences, Professor **Somsikov V.M.**

Davletov A.E.

D 43 Electricity and magnetism: course of lectures / A.E. Davletov, L.T. Yerimbetova. – Almaty: Kazakh University, 2015. – 196 c.
ISBN 978-601-04-0804-3

This course of lectures is a comprehensive lecture notes on the course "Electricity and Magnetism", taught in English at the Department of Physics and Technology of Al-Farabi Kazakh National University for more than a decade.

It is intended for second year students of special groups of universities, majoring in the specialties of "Physics", "Nuclear Physics" and "Technical Physics".

The authors are grateful to the Ministry of Education and Science of the Republic of Kazakhstan for the support of one of them (A.E. Davletov) rendered by granting the title of "The Best University Professor -2013".

UDC 537 (075.8) LBC 22.33

© Davletov A.E., Yerimbetova L.T., 2015 © Al-Farabi KazNU, 2015

Forewo

The content o "Electricity any years for under of Al-Farabi "Physics", "N course consists each, and is a Each lecture i problem solvin It should be no and non-standa application of t

The main s is SI, i.e. the all general phy Republic of Ka physical experi corresponding li of view the SI s however, the tra for a professional

It is hoped to various undergraphysics is the ma helpful in prepare evaluation of edu

At the end of t to contain both te be paid to the lite English terminole quality profession

ISBN 978-601-04-0804-3

/docs/

es/L5

eintro.

10/02/

Educational issue

Davletov Askar Erbulanovich Yerimbetova Lyazzat Tastanbekovna

ELECTRICITY AND MAGNETISM

Course of lectures

Typesetting and cover design A. Kaliyeva

IB No. 8106 Signed for publishing 04.03.15. Format 70x100 ¹/₁₂. Offset paper. Digital printing. Volume 16,3 printer's sheet. 200 copies. Order No 616 . Publishing house "Kazakh University" AI-Farabi Kazakh National University KazNU, 71 AI-Farabi, 050040, Almaty

Printed in the printing office of the "Kazakh University" publishing house