

Technicalsciences. Y.M. Vasetsky, I.P. Kondratenko, A.P. Rashcepkin, I.L. Mazurenko **Electromagnetic interactions between current contours and conductive medium.** – Kyiv, Institute of Electrodynamics of NAS of Ukraine. 2019. – 220 p. 300 copies.

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This book is devoted to the further development of the theory for solving of a certain class of three-dimensional electromagnetic field problems. The electromagnetic systems under examination include a.c. contour with arbitrary spatial configuration and magnetized conducting body with induced eddy currents. The theoretical studies on induction heating of non-ferrous and ferrous metal tapes are presented. The inverse problems are solved to determine the inductor configuration as flat and spatial current contours for providing of the necessary temperature distribution of moving metal tapes. The book is intended for researchers, postgraduate students and students specialized in electrical engineering, particularly in electromagnetic field studies and induction heating installations.