

ABSTRACT

Explanatory note contains 110 pages, 54 figures, 21 tables, bibliography, consisting of 68 items, 6 sheets of the graphic part.

The object of the study is processes of electromechanical energy conversion in traction electrical drive.

The subject of research is the torque control algorithms for asynchronous traction drive.

In this thesis work are designed modeling programs for selected algorithms of AC traction drive control. The algorithms of AC traction drive control are researched. The comparison of energetic and dynamic performance of AC traction drive control algorithms for different modes of vehicle operation is conducted.

Designed principle power electrical scheme of the vehicle.

TRACTION AC DRIVE, MOTOR CONTROL ALGORITHMS, SIMULATION, ENERGETIC AND DYNAMIC PERFORMANCE.

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Перевір.		Ковбаса С.М.					7	110
Реценз.						<i>КПІ ім. І. Сікорського ФЕА гр.ЕП-51м</i>		
Н. Контр.		Бур'ян С.О.						
Затверд.		Пересада С.М.						