

Design of continuously variable transmissions

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Abstract

© 2016, Oriental Scientific Publishing Company. All rights reserved. The proposed developed technique of designing a continuously variable transmission on the basis of the differential hydromechanical CVTs, taking into account the peculiarities of the working process of the hydraulic machines and gear differential mechanisms of different types. Developed the design of the continuously variable transmission of a motor vehicle and the calculation of traction-speed characteristics of a vehicle equipped with a continuously variable transmission.

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Keywords

Continuously variable transmission, Differential hydromechanical variator, High-torque differential hydra-mechanical variator, Hydra-mechanical gear train, Mechanical diagram