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Conditions for High Operating Accuracy of an Adaptive Friction Coupling with Positive-Negative Feedback

Abstract: The research has revealed that the condition of equality of the torques in the second generation adaptive friction coupling (basic version) with the minimum and maximum friction coefficients is fulfilled only with small, non feasible, mean radius values of the friction surfaces of the additional friction group. The maximum torque value of a coupling with a reduced mean radius of the friction surfaces of the additional friction group is practically unattainable within the entire friction coefficient value range.