

Title (en)

METHOD FOR AUTOMATICALLY GENERATING SMOOTHED CHARACTERISTIC DIAGRAMS FOR AN ELECTRONIC ENGINE CONTROL OF AN INTERNAL COMBUSTION PISTON ENGINE

Title (de)

VERFAHREN ZUR AUTOMATISCHEN ERSTELLUNG VON GEGLÄTTETEN KENNFELDERN FÜR EINE ELEKTRONISCHE MOTORSTEUERUNG EINER KOLBENBRENNKRAFTMASCHINE

Title (fr)

PROCEDE D'ETABLISSEMENT AUTOMATIQUE DE RESEAUX DE CARACTERISTIQUES LISSES POUR UNE COMMANDE ELECTRONIQUE D'UN MOTEUR A COMBUSTION INTERNE A PISTONS

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Application

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Abstract (en)

[origin: US6425374B1] The invention relates to a method for automatically generating smoothed characteristic diagrams for electronic engine controls of internal combustion piston engines. The invention is characterized in that the adjustment variable combination of the individual successive operating points are input by means of a motor control to a reference internal combustion piston engine by entering specified values of the boundary conditions for the operation of an internal combustion piston engine. According to the invention, the reference internal combustion piston engine is operated in this operating point, and the actual values and/or boundary conditions occurring during the same are acquired and compared with the specified values of the boundary conditions in an optimization system assigned to the engine control and, in the instance of variations, the adjustment variable combinations are optimally altered in a progressive manner by the optimization system. A quality function for the respective alteration of the adjustment variable combination is predetermined in the optimization system, and the quality function is corrected while taking into account already established values of the adjustment variable combination of at least one adjacent operating point.

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