

Title (en)

ADAPTIVE CONTROL SYSTEM FOR CONTROLLING REPETITIVE PHENOMENA

Title (de)

ADAPTIVES REGELUNGSSYSTEM ZUR REGELUNG VON SICH WIEDERHOLENDEN PHÄNOMENEN

Title (fr)

SYSTEME DE COMMANDE ADAPTATIVE PERMETTANT DE COMMANDER DES PHENOMENES REPETITIFS

Publication

**EP 0731936 A1 19960918 (EN)**

Application

**EP 95932087 A 19950920**

Priority

- GB 9502242 W 19950920
- GB 9419848 A 19941003

Abstract (en)

[origin: GB2293898A] An adaptive control system is provided for controlling a plant subject to repetitive phenomena having at least one frequency component eg to cancel vibrations in a motor vehicle. The system comprises a complex reference generator for generating a complex reference signal having in-phase and quadrature components substantially at a frequency of one of the frequency components. A first heterodyning arrangement is provided to heterodyne the complex reference signal with the complex control coefficients to generate at least one control signal having an in-phase component for use in the control of the plant to generate at least one desired output signal. The frequency components in the output signal is correlated with the complex reference signal to generate complex update coefficients and a second heterodyning arrangement heterodynes the output signal with a signal derived from the complex reference signal to generate the complex update coefficients which comprise sum and difference components. An integrator integrates the complex update coefficients comprising the sum and difference components to generate the complex control coefficients. <IMAGE>

IPC 1-7

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IPC 8 full level

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