

Title (en)

METHOD AND DEVICE FOR THE HYSTERESIS CORRECTION OF MEASURED VALUES FOR SENSORS WITH EXTENSOMETERS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HYSTERESEKORREKTUR VON MESSWERTEN BEI AUFNEHMERN MIT DEHNUNGSMESSSTREIFEN

Title (fr)

PROCEDE ET DISPOSITIF POUR LA CORRECTION D'HYSTERESIS DE VALEURS MESUREES POUR DES CAPTEURS A EXTENSOMETRES

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Application

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Abstract (en)

[origin: WO0235191A1] The invention relates to a method and a device for the hysteresis correction of the measured values of one or more sensors (1), which have been determined in a deformation body using extensometers. According to the invention, each measured value x affected by hysteresis is corrected for the hysteresis error. To achieve this, a hysteresis model is created from the registered strain characteristic curve and the theory of dipole density of the aligned elementary hysteresis in the interior of the deformation body. Said model is used, together with the measured values x affected by hysteresis and the recorded strain history, to derive a correction value for correcting the hysteresis error.

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