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State feedback control design for a class of nonlinear systems S. Hajji1,2, M. M’Saad2, M. Farza2, A. Chaari1, M. Kamoun1 19 f´evrier 2009 1 ENIS, D´epartement de G´enie ´electrique, BP W, 3038 Sfax, Tunisie. 2 GREYC, UMR 6072 CNRS, Universit´e de Caen, ENSiCAEN, 6 Bd Mar´echal Juin, 14050 Caen Cedex, FRANCE. courriel : mfarza@greyc.ensicaen.fr

State feedback control design for a class of nonlinear systems This paper presents a new nonlinear robust neuro-adaptive state-constrained control formulation for effectively controlling a hypersonic flight vehicle in cruise. The proposed controller ensures that the vehicle velocity, attitude and angular body rates remain bounded within the prescribed limits.

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A robust nonlinear state feedback is proposed for uncertainties considered as a class of bounded perturbations to the state model.

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