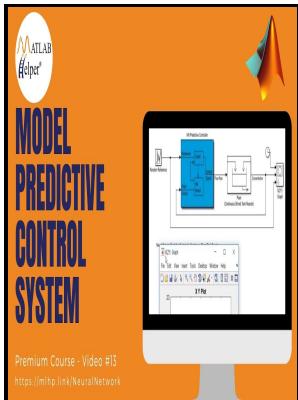


Model-reference neural control.

University of Salford - Model reference adaptive tracking control for hydraulic servo systems with nonlinear neural



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Using the Model Reference Controller Block :: Control Systems Neural Network Toolbox Neural Network Toolbox Using the Model Reference Controller Block This section demonstrates how the neural network controller is trained. The results are as shown in Fig 3 below.

Simulink model reference control neural network

This selection of proper learning, training and adaptation technique helps us while controlling systems with uncertain parameters because in such cases adaptation is compulsory. In this demo, the objective is to control the movement of a simple, single-link robot arm, as shown in the following figure. You would then train the plant model.

Model Reference Adaptive Control of Jacketed STIRRED

To show the efficiency of the proposed SRNN-based MRAC, three different nonlinear systems were considered as case studies, including complex difference equations and the water bath temperature control system.

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In the proposed algorithm, neural network is used to approximate the time-varying solution of HJB equation using least squares method. In either of two nonlinearity cases control technique effectively works by integrating adaptive backstepping technique and neural networks.

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