



# Modelling Human Operators in Control System Design

*Robert Sutton*

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## **Modelling Human Operators in Control System Design** Robert Sutton

In the design of man-machine systems it is essential that the human operator be represented by a suitable model for communication purposes. A model can treat the human operator as a simple linear control element, take a nonlinear approach, or estimate the human operator transfer function and associated remnant to see if these lie within acceptable bounds. Covers all these approaches as well as introduces fuzzy logic as a new and promising modeling mechanism. With interest in both restructurable and reconfigurable controls, particularly with aerospace and marine applications on the rise, and the need for system designers to employ these complex technologies more often, it provides a means for engineers to optimize the overall performance of man-machine control systems.

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