

101. Zvi Artstein and Gera Weiss, **State nullification by memoryless output feedback**. Math. Control Signals Systems 17 (2005), 38-56.

Abstract. We examine linear single input single output finite dimensional systems. It is shown that a continuous time controllable and observable system can be nullified utilizing periodic sampling of the output with time varying linear feedback. Almost any sampling rate can be used. The result relies on a characterization of linear output feedback nullification of discrete time observable and controllable systems. An algorithm for the nullification and an estimate on the time in which the algorithm is concluded are provided.

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