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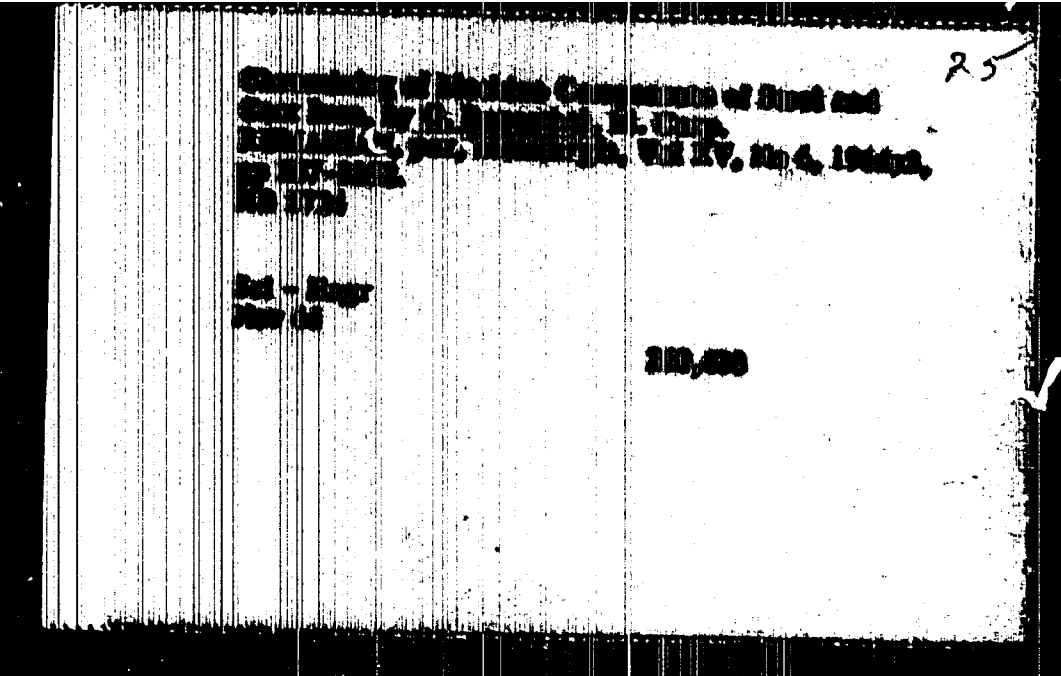
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 H is an $n \times 1$ matrix, L' is a $1 \times n$ matrix, and σ and
 $f(\sigma)$ are scalars. It is shown that (1) if the control is
subject only to the restriction that $\sigma f(\sigma) > 0$ there does
not in general exist a Liapunov function of the form
 $V = 1/2 x' Mx + \int_0^\sigma f(\sigma) d\sigma$ that will guarantee asymptotic
stability even though the controlled plant is asymptotically
stable, and (2) if the control is subject to the re-
striction $c_1 \sigma^2 < \sigma f(\sigma) < c_2 \sigma^2$ conditions sufficient for
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