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CONDITION FOR VIBRATIONS STABILITY
DAMPED DYNAMIC SYSTEMS

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1. ABSTRACT

In the present paper the necessary conditions are assessed for the polynomial attached to the equation of damped eigenpulsations to have the complex roots with the real part negative. This assures the stability of the system at free vibrations. In this way there are introduced notions of quasi-stability and stability, for the dynamic systems, by mean of Hurwitz polynomials.