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THURSDAY, JANUARY 13.

[1955

DETERMINATION OF THE INDUSTRIAL APPEALS COURT.

IN THE INDUSTRIAL APPEALS COURT:

IN THE MATTER of the *Labour and Industry Act 1953.*

AND

IN THE MATTER of a Determination made by the Painters Board on the 4th day August, 1954.

AND

IN THE MATTER of an Appeal against Clause 26 Part 1 of the said Determination.

Before the Industrial Appeals Court (Judge Gamble, K. H. Boykett, Esq., and J. V. Stout, Esq.)

Monday the 6th day of December, 1954.

Having heard the above-mentioned Appeal on the 4th and 8th days of October, 1954, and on this day this Court doth order and determine:—

1. That the appeal be allowed.
2. That the Determination be amended by the deletion of clause 26 Part 1.

By Order of the Court,

E. W. LAITY,
Registrar.

The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $\epsilon \rightarrow 0$. In this case, the system (1) can be written in the form

$$\begin{aligned}
 \dot{x} &= A(x)y, \\
 \dot{y} &= B(x)y + C(x)u,
 \end{aligned}$$

where $A(x)$ and $B(x)$ are matrices depending on x , and $C(x)$ is a vector depending on x . The matrix $A(x)$ is assumed to be invertible for all x in the domain of interest.

In the second part of the paper, we study the stability of the system (1) with respect to the parameter ϵ . We show that the system is stable for all values of ϵ in the interval $(0, \epsilon_0)$, where ϵ_0 is a positive constant depending on the initial conditions and the parameters of the system.

Finally, in the third part of the paper, we study the controllability of the system (1). We show that the system is controllable for all values of ϵ in the interval $(0, \epsilon_0)$, where ϵ_0 is a positive constant depending on the initial conditions and the parameters of the system.