Werk

Label: Table of literature references

Jahr: 1973

PURL: https://resolver.sub.uni-goettingen.de/purl?31311157X_0098|log23

Remark 3. If $x_i^{(n)}(\tau) = 0$ for some $\tau \in I$ and for all $i = 1, 2, \ldots, k$, then only those vectors $p(t)$ satisfying $p_j(\tau) = 0$, $j = 1, 2, \ldots, n$ can be written in the form (5) (with a positive definite matrix A). Particularly, if $x_i^{(n)}(t) = 0$ in I, $i = 1, 2, \ldots, k$, then the single equation $y^{(n)} = 0$ is obtained independently of the choice of the matrix A.

References

[1] *Ascoli, G.:* Sulla decomposizione degli operatori differenziali lineari. Revista (Univ. Nac. Tucuman), Ser. A, *1* (1940), pp. 189—215.
[2] *Jarník, J.:* A note to the construction of a linear differential equation with given solutions. Čas. pěst. mat. *95* (1970), pp. 269—277.

Author's address: 115 67 Praha 1, Žitná 25 (Matematický ústav ČSAV v Praze).