Linear spaces for index 2 differential-algebraic equations*

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dedicated to C. W. Gear on occasion of his 60th birthday
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Abstract

In this paper we consider solution spaces of linear index-2-tractable differential algebraic equations. Relations between the solutions of the adjoint equations and the corresponding solution spaces are derived and, thus, a simple methods for computing consistent initial values is provided.

Key words. Differential-algebraic equations, linear solution spaces, consistent initial values

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