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René Lamour: A Shooting Method for Fully Implicit Index-2 Differential-Algebraic Equations

Abstract: A shooting method for two–point–boundary value problems for fully implicit index–1 and –2 differential–algebraic equations is presented. A combination of the shooting equations with a method of the calculation of consistent initial values leads to a system of nonlinear algebraic equations with nonsingular Jacobian. Examples are given.