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Dual-Number Methods in Kinematics, Statics and Dynamics serves as a text for a course using dual-number methods as well as a manual for the reader to develop his or her abilities for the design of machinery or evaluation of mechanical systems.

dual number methods in kinematics statics and dynamics

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Dual-Number Methods in Kinematics, Statics and Dynamics

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Dual-Number Methods in Kinematics, Statics and Dynamics

and the hyper-dual number calculations are compared to exact analytic results. II. Motivation A second-derivative calculation method is sought that has comparable performance, based on accuracy, computational efficiency, and ease of implementation, to the first-derivative complex-step approximation.

The Development of Hyper-Dual Numbers for Exact Second

The primary goal of this thesis is to investigate the extent to which the dual methods available for linear programs (LPs) can be extended to the case of mixed integer linear programs (MILPs) in which a specified subset of the variables of an LP must take integer values.

DUAL METHODS IN MIXED INTEGER LINEAR PROGRAMMING - COR@L

Mathematical and mechanical entities such as line vectors, screws and wrenches can be conveniently represented within the framework of dual algebra. Despite the applications received by this type of algebra, less developed appear the numerical linear algebra algorithms within the field of dual numbers.

Linear Dual Algebra Algorithms and their Application to

10. THE DUAL SIMPLEX METHOD. In Section 5, we have observed that solving an LP problem by the simplex method, we obtain a solution of its dual as a by-product. Vice versa, solving the dual we also solve the primal. This observation is useful for solving problems such as maximize $4x_1 + 8x_2 + 9x_3$ subject to $2x_1 + x_2 + x_3 \leq 1$, $3x_1 + 4x_2 + x_3 \leq 2$, $x_1, x_2, x_3 \geq 0$.

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