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DUALITY IN NONLINEAR PROGRAMMING: A SIMPLIFIED APPLICATIONS ORIENTED DEVELOPMENT

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In this work, all that is known at present about duality in nonlinear programming is extended and updated. The duality theory is developed by using the "disturbance function". This fact leads to simple demonstrations and makes it possible to consider some particularly suggestive geometrical representations. As it seems, this manner of approaching the duality theory facilitates its applicability both in problems with an economic character, and in those of elaborating algorithms. This synthesis work makes up an excellent means of documentation for those who desire to get to know the field of the duality theory.