

LINEAR INTEGRAL INEQUALITIES INVOLVING MAXIMA OF THE UNKNOWN SCALAR FUNCTIONS

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Abstract. This paper deals with linear integral inequalities that include the maximum of the unknown scalar function of one variable. The considered inequalities are generalizations of the classical integral inequality of Gronwall-Bellman. The importance of these integral inequalities is defined by their wide applications in qualitative investigations of differential equations with “maxima” and it is illustrated by some direct applications.

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