1023-34-1331   **Bryce Holthouse*** (`bxh54360@cmsu2.cmsu.edu`), Department of Math. and Computer Science, University of Central Missouri, Warrensburg, MO , and **Lianwen Wang** (`lwang@cmsu.edu`), Department of Math. and Computer Science, University of Central Missouri, Warrensburg, MO 64093. *Monotone Solutions of Nonlinear Differential Equations.*

We consider the monotone solutions of the second order nonlinear differential equations of the form $(P(t)f(x'(t)))' = Q(t)g(x(t))$, where $P(\cdot)$, $Q(\cdot) \in C([0, \infty); \mathbb{R})$ and $f(\cdot)$, $g(\cdot) \in C(\mathbb{R}; \mathbb{R})$. The classification of monotone solutions is discussed. Some boundedness properties of monotone solutions are obtained under natural assumptions. (Received September 26, 2006)