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# ON THE STUDY OF ASYMPTOTIC PROPERTIES OF SOLUTIONS TO QUASI-LINEAR HIGHER ORDER EQUATIONS

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For the equation

$$u^{(n)} + \sum_{j=0}^{n-1} a_j(x)u^{(j)} = p(x)|u|^k \operatorname{sgn} u ,$$

where  $k > 0$ ,  $k \neq 1$ ,  $n \geq 2$ , the functions  $p, a_0, \dots, a_{n-1}$  are continuous for  $x \geq x_0$ , some qualitative and asymptotic properties of its solutions (oscillation, the behavior at infinity, etc.) are presented. Various methods for studying these equations and their special cases  $a_j = 0, j = 1, 2, \dots, n - 1$ , are discussed.

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