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**TWO-SWEEP ITERATION METHOD FOR  
CONSTRUCTION OF PERIODIC SOLUTIONS OF  
QUASILINEAR SYSTEMS WITH A SMALL  
PARAMETER**

**Abstract**

The problem of construction of periodic solutions of quasilinear systems is considered. Two-sweep iteration procedure providing the extension of simple roots of amplitude equation, has been constructed. The accompanying general estimations have been obtained for rate of convergence and error of iterations.