1015-35-166 tim adam smith* (smitht@fit.edu), 3285 parkland street, titusville, FL 32796. on doubly periodic solutions of forth order nonlinear hyperbolic problems.

The problem on doubly periodic solutions is considered for a class of quasi-linear fourth order hyperbolic equations. Effective sufficient conditions of solvability and unique solvability are established; in addition, several useful a prior estimates are obtained. Furthermore, the author expects that these results can be extended to analogous higher order and nonlinear problems. (Received February 03, 2006)