

POSITIVE PERIODIC SOLUTIONS FOR THE NONLINEAR WAVE EQUATION

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Abstract. In this paper we prove that nonlinear wave equation

$$u_{tt} - \Delta u = f(t, x, u, u_t, u_x)$$

has unique positive solution $u(t, x)$ which is ω -periodic with respect to the time variable t . The period $\omega > 0$ is arbitrarily chosen and fixed.

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