

## **Almost-periodic solutions to an initial boundary value problem for model equations of resistive drift wave turbulence**

SHINTARO KONDO AND ATUSI TANI

**Abstract.** In this paper we are concerned with the drift wave turbulence in a strong magnetic field. The existence and the uniqueness of a strong Stepanov-almost-periodic solution to the initial boundary value problems are established both for the model equations of the resistive drift wave turbulence and for the three-dimensional Hasegawa–Wakatani equations when the initial data are Stepanov-almost-periodic in the magnetic field direction.

**Mathematics Subject Classification (2010):** 35Q60 (primary); 35K45, 42A75, 42B05, 82D10 (secondary).