

generalized dimension of time domain and frequency domain was used as characteristic value.

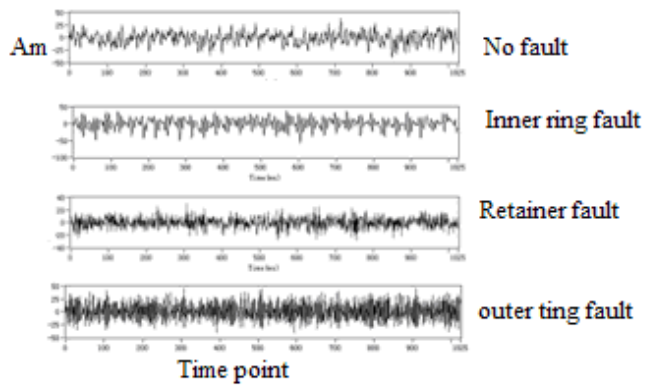


Fig. (4). Waveform.

This paper use the time-frequency dimension method of bearing vibration signal as the input of adaptive fuzzy neural network to realize classify of fault of rolling bearing. The results show that the classification of the accuracy of this method is high, and it has certain application value.

Table 2. Output of method 1 by ANFIS (2).

State	State 1	State 2	State 3	State 4
state 1(10 group)	10	0	0	0
state 2(10 group)	0	10	0	0
state 3(10 group)	1	0	9	0
state 4(10 group)	0	0	1	0

CONFLICT OF INTEREST

The authors confirm that this article content has no conflict of interest.

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