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Neural-network based fault diagnosis of hydraulic forging presses in China. (English)

Zbl 0913.90136

Int. J. Prod. Res. 33, No. 7, 1939-1951 (1995).

Summary: The paper describes the utilization of neural networks for fault diagnosis of hydraulic forging presses which may have an impact on the effective utilization of the over 2000 presses in use in China. The technical descriptions of the presses and the 47 major possible faults are presented. For diagnosing these faults the neural network with 30000 iteration training was utilized and it provided a 99% accuracy in identifying causes of the failures of hydraulic forging presses.

MSC:

90B30 Production models

90B25 Reliability, availability, maintenance, inspection in operations research

68T05 Learning and adaptive systems in artificial intelligence

Cited in 1 Document

Keywords:

neural networks; fault diagnosis; hydraulic forging presses

Full Text: [DOI](#)

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