

<<基于混沌和小波的故障信息诊断>>

图书基本信息

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内容概要

《基于混沌和小波的故障信息诊断》不拟追求故障信息诊断理论方法的全面性，而是重点论述以混沌理论和多分辨分析理论为基础的强干扰背景的故障信息诊断新理论、新方法、新经验。近年来混沌工程学成为工程领域广泛关注的课题，但混沌理论在故障诊断中的应用研究还只是刚刚起步。

此外，近年来出现的小波理论，以其特有的优势成了故障诊断领域的另一个热门话题，但是由于其概念体系的数学抽象性，限制了它的工程应用。

《基于混沌和小波的故障信息诊断》在系统深入的理论依据基础上，提出了利用混沌振子的间歇混沌现象进行强噪声背景微弱信号检测的方法，并将其应用到强干扰背景下的故障信息诊断中。

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