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This volume first provides insights on some limitations in machine functions such as computational processes. It then describes fundamental techniques in manufacturing and automation systems such as neural network techniques; techniques used in the agricultural industry; modeling and simulation; knowledge-based simulation environment techniques; detection of faults; computer-assisted tomography and finite element modeling; and sensor integration.

This book will provide a uniquely significant reference for practising engineers looking for a comprehensive treatment of techniques and technologies in manufacturing and automation system.

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