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## Mosaic: System Description, Specification and Planning (Classic Reprint) (Paperback)

By Israel Greenfeld

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Mosaic: System Description, Specification and Planning As an Open-system, a machine tool is equipped with a general purpose computer, such as a PC or a workstation, enhanced with additional standard computer hardware, that controls the axes of motion and the various devices, and manages programs and data. Communication utilizes networks that are universally accepted in the computer world, and thus resources may be shared as needed. The machine is adaptable to the changing environment and tasks, in terms of its controller's computer configuration, and in terms of the mechanical construction. The mosaic controller is specified and designed especially for the projected self-sustaining Open-system future environment of machine tools. The concept (and its implementation in brackets) is based on a general purpose computer (a Sun workstation), running a standard operating system (unix), programmed in a standard programming language (c), and having a standard hardware (vmebus). It provides a flexible environment that can drive the machine, the manipulators and the sensors. It can be configured as a controller for a single machine or for multiple machines. It uses...



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