

Power Transmission: Mechanical, Hydraulic, Pneumatic and Electrical

Thomas E. Scott

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Power Transmission: Mechanical, Hydraulic, Pneumatic and **Electrical**

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Focusing on the application of technology--not the design of machinery--this volume is designed to help manufacturing technologists and technical managers make intelligent, well-founded decisions regarding power transmission in manufacturing processes. Using a cross-disciplinary approach that relates mechanical, hydraulic, pneumatic, and electrical concepts and examples, it presents a straightforward development from the basic elements to the complex systems that achieve the full spectrum of manufacturing tasks in industry. It is not a "how to," but rather an exposé of alternative approaches that can be weighed in the context of cost, ease of implementation, efficiency, flexibility, adaptability, and other payoff factors that lead to profitable approaches to manufacturing. Features numerous descriptive and illustrative figures and problems, an no sophisticated mathematics. MECHANICAL POWER TRANSMISSION. Simple Machines--Mechanical Devices. Mechanical Power Transmission (Gears. Belts and Chains). Mechanical Power Transmission (Clutches, Couplings, Bearings). Specialized Devices. FLUID POWER TRANSMISSION. Hydraulics. Pneumatics. ELECTRICAL POWER TRANSMISSION. Electricity and Electromagnetism. Electric Motors. PRIME MOVERS--HEAT ENGINES. Heat Engines--Principle of Operation. Heat Engines--Types and Examples. Industrial Control. For manufacturing technologists and technical managers responsible for power transmission and its applications.



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