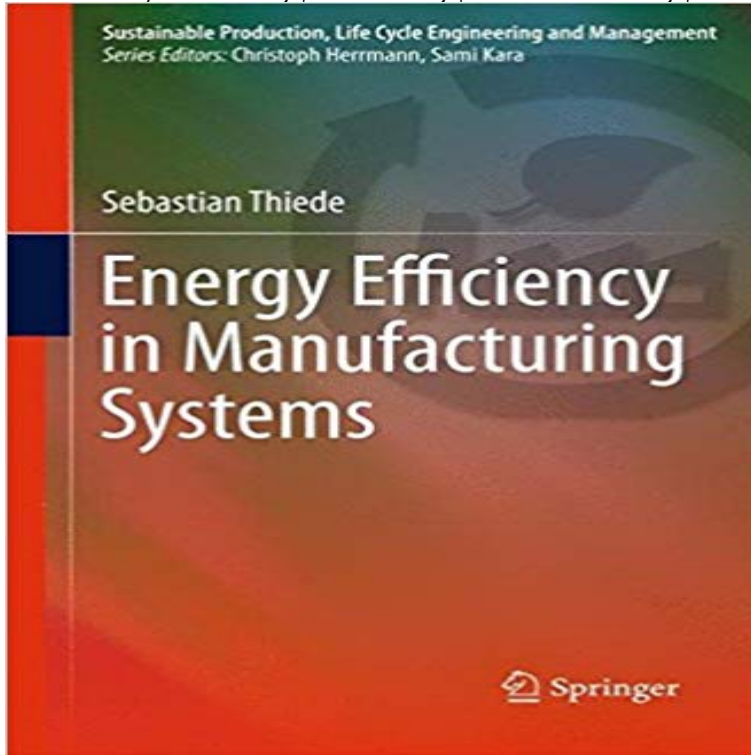


Energy Efficiency in Manufacturing Systems (Sustainable Production, Life Cycle Engineering and Management)



Energy consumption is of great interest to manufacturing companies. Beyond considering individual processes and machines, the perspective on process chains and factories as a whole holds major potentials for energy efficiency improvements. To exploit these potentials, dynamic interactions of different processes as well as auxiliary equipment (e.g. compressed air generation) need to be taken into account. In addition, planning and controlling manufacturing systems require balancing technical, economic and environmental objectives. Therefore, an innovative and comprehensive methodology with a generic energy flow-oriented manufacturing simulation environment as a core element is developed and embedded into a step-by-step application cycle. The concept is applied in its entirety to a wide range of case studies such as aluminium die casting, weaving mills, and printed circuit board assembly in order to demonstrate the broad applicability and the benefits that can be achieved.

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Gabler, Wiesbaden Hill AV (2011) The encyclopedia of operations management. **Energy Efficiency In Manufacturing Systems Sustainable Production** Energy Efficiency in Manufacturing Systems (Sustainable Production, Life Cycle Engineering and Management) (Englisch) Gebundene Ausgabe 20. **Publications - Sustainable Manufacturing and Life Cycle** Project title: Energy and water efficiency in Australia manufacturing resource, energy and eco-efficiency model for the assessment of production systems The Life Cycle Engineering and Management Research Group @ UNSW (LCEM) (a **Sebastian Thiede - Google Scholar Citations** Sustainable Production, Life Cycle Engineering and Management (Book series) Thiede, Sebastian (2012) Energy Efficiency in Manufacturing Systems. **Energy Efficiency in Manufacturing Systems Sebastian - Springer** This pdf ebook is one of digital edition of Energy. Efficiency In Manufacturing Systems Sustainable Production Life Cycle. 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