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   Autore   Sangwan Kuldip Singh

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Continuous Kaizen Implementation to Improve Leanness: A Case Study of Indian Automotive Assembly Line -- Time Series Auto-regressive Integrated Moving Average Model for Renewable Energy Forecasting -- 3-CYCLE - A Modular Process Chain for Recycling of Plastic Waste with Filament-based 3D Printing for Learning Factories -- Exploring Sustainability in Indian Pharmaceutical Industry -- Wind Energy Prediction Using Artificial Neural Networks -- Data Analytics of Energy and Compressed Air Flows for Process and Quality Monitoring in Electro-Pneumatic Handling Systems -- Development of an Electric-Load Intelligence System for Component Level Disaggregation to Improve Energy Efficiency of Machine Tools.

| Sommario/riassunto | This open access book presents the proceedings of the 3rd Indo-German Conference on Sustainability in Engineering held at Birla Institute of Technology and Science, Pilani, India, on September 16–17, 2019. Intended to foster the synergies between research and education, the conference is one of the joint activities of the BITS Pilani and TU Braunschweig conducted under the auspices of Indo-German Center for Sustainable Manufacturing, established in 2009. The book is divided into three sections: engineering, education and entrepreneurship, covering a range of topics, such as renewable energy forecasting, design & simulation, Industry 4.0, and soft & intelligent sensors for energy efficiency. It also includes case studies on lean and green manufacturing, and life cycle analysis of ceramic products, as well as papers on teaching/learning methods based on the use of learning factories to improve students'problem-solving and personal skills. Moreover, the book discusses high-tech ideas to help the large number of unemployed engineering graduates looking for jobs become tech entrepreneurs. Given its broad scope, it will appeal to academics and industry professionals alike. |