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Nota di contenuto	Intro -- Foreword -- Contents -- Numerical Analysis of Thermal Effects and Thermal Management in Thermophotovoltaic Systems -- 1 Introduction -- 2 TPV System Modeling -- 3 Results and Discussions -- 3.1 Mesh Independence Study -- 3.2 Thermal Management of the TPV System with Convective - Conductive Cooling -- 4 Conclusions -- References -- A New Method for Monitoring the Energy Consumption of Industrial Compressors -- 1 Introduction -- 2 Material and Method -- 2.1 Industrial Air Compressor Description -- 2.2 Description of the Metering Type -- 2.3 Types of Measurable Functions of Counters -- 2.4 Selection of the Method for Monitoring Electricity Consumption and Statistical Parameters. -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- Very Short-Term Power Forecasting for Photovoltaic Power Plants Using a Simple LSTM Model Based on Short-Term Historical Datasets: Case Study -- 1 Introduction -- 2 Related Works -- 3 State-of-the-Art on Very Short-Term PV Solar

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Sommario/riassunto

This book contains research papers that were accepted for presentation at the 17th International Conference on Interdisciplinarity in Engineering—INTER-ENG 2023, which was held on 5–6 October 2023, in the city of Târgu Mure, Romania. The general scope of the conference “Towards transition for a more competitive European industry in a smart, safe and sustainable future” is proposing a new approach related to the development of a new generation of smart factories grounded on the manufacturing and assembly process digitalization. It is related to advance manufacturing technology, lean manufacturing, sustainable manufacturing, additive manufacturing, manufacturing tools and equipment. It is a leading international professional and scientific forum of great interest for engineers and scientists who can read in this book research works contributions and recent developments as well as current practices in advanced fields of engineering.