Table of Contents

Wawrzyniec Gołębiewski Theoretical Analysis of the Effect of Traction Parameters on Electric Vehicle Energy Consumption and Driving Range	5
Wawrzyniec Gołębiewski, Tomasz Stoeck Theoretical Evaluation of Relationships Between Tyre Energy Efficiency Class and Fuel Consumption of a Passenger Car According to NEDC	13
Jacek Majcher Intelligent Building: Comfort and Safety	21
Henryk Rode, Marcin Chęciński Research on Disc Cutting Unit for Cutting Energy Plants	25
Henryk Rode, Paweł Witkowski Energy of the Cutting Process of Reynoutria Sachalinesis Stems	31
Mariusz Sarniak Study on the Effects of Changes of Ambient Temperature and Solar Irradiance on the Efficiency of the Silicon PV Modules	35
Mariusz Szreder Energy Analysis of an Air Heat Pump for Hot Water	41
Karol Tucki Use of Solar Collectors on the Example of a Water-Park Part I: Technical Analysis	47
Karol Tucki Use of Solar Collectors on the Example of a Water-Park Part 2: Economic Analysis	53
Karol Tucki, Mikołaj Kominek Technical Economic Analysis of a 0,8MW Agricultural Biogas Plant	59
Karol Tucki, Michał Sikora Modernisation of a Coal-Fired Heating Plant to Switch to Woodchips, in Accordance with Logistics Principles	65

TABLE OF CONTENTS

Karol	Tucki, Michał Sikora Technical and Logistics Analysis of the Extension of the Energy Supply System with the Cogeneration Unit Supplied with Biogas from the Water Treatment Plant	7
Karol	Tucki, Michał Sikora, Magdalena Karlikowska, Wojciech Będkowski Selected Issues of the Economic Analysis of a Heating System with the Direct Evaporation Heat Pump	77
Karol	Tucki, Michał Sikora, Magdalena Karlikowska, Wojciech Będkowski Selected Issues of the Technical Analysis of a Heating System Using the Direct Evaporation Heat Pump	83
Karol	Tucki, Mateusz Zimoch 3D Analysis of Machining of Wind Turbine Blade Using CAD/CAM Software Part I. Selection of Aerodynamic Profile of a Wind Turbine Blade	89
Karol	Tucki, Mateusz Zimoch 3D Analysis of Machining of Wind Turbine Blade Using CAD/CAM Software Part 2. Wind Turbine Blade Modelling	93
Karol	Tucki, Mateusz Zimoch 3D Analysis of Machining of Wind Turbine Blade Using CAD/CAM Software Part 3. Simulation of machining in CAM environment	99