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Nota di contenuto Artificial Neural Networks for Prediction of Hot Metal Production in a

Blast Furnace -- The Method of Ontological Designing of Complex Structural Events in the Study of Strikes of Aircraft with Wildlife -- Effect Analysis of Service Entrance Box on the Wireless Communication Performance of Home Electric Power Meters -- A Digitally Controlled Delay Generator Implemented with Cyclone V FPGA using Timing Analysis -- Design study of the electric power supply system between Punta Arenas residential complex and Petroperú's Talara Refinery through an Automatic Load Transfer System, Piura - Peru -- Application of cluster analysis to electricity generation data from the Santo Antônio hydroelectric plant in the state of Rondônia, Brazil -- Changes in salivary pH after application of xylitol toothpaste using a digital pH meter: a pilot study -- PID Controller Optimized based on PSO for Trajectory Tracking of Free-Floating Satellite Robotic

PSO for Trajectory Tracking of Free-Floating Satellite Robotic Manipulator -- Aquatic quantification of toxic heavy metals due to physical-chemical factors in meat production of Oncorhynchus mykiss (rainbow trout) in controlled open systems case: Lagunillas-Lampa,

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## Sommario/riassunto

This book presents the proceedings of the 8th Brazilian Technology Symposium (BTSym'22). The book discusses current technological issues on Systems Engineering, Mathematics, and Physical Sciences, such as the Transmission Line, Protein-Modified Mortars, Electromagnetic Properties, Clock Domains, Chebyshev Polynomials, Satellite Control Systems, Hough Transform, Watershed Transform, Blood Smear Images, Toxoplasma Gondi, Operation System Developments, MIMO Systems, Geothermal-Photovoltaic Energy Systems, Mineral Flotation Application, CMOS Techniques, Frameworks Developments, Physiological Parameters Applications, Brain-Computer Interface, Artificial Neural Networks, Computational Vision, Security Applications, FPGA Applications, IoT, Residential Automation, Data Acquisition, Industry 4.0, Cyber-Physical Systems, Digital Image Processing, Patters Recognition, Machine Learning, Photocatalytic Process, Physical-Chemical Analysis, Smoothing Filters, Frequency Synthesizers, Voltage Controlled Ring Oscillator, Difference Amplifier, Photocatalysis, and Photodegradation, and current technological issues on Human, Smart, and Sustainable Future of Cities, such as the Digital Transformation, Data Science, Hydrothermal Dispatch, Project Knowledge Transfer, Immunization Programs, Efficiency and Predictive Methods, PMBOK Applications, Logistics Process, IoT, Data Acquisition, Industry 4.0, Cyber-Physical Systems, Fingerspelling Recognition, Cognitive Ergonomics, Ecosystem Services, Environmental, Ecosystem Services valuation, Solid Waste, and University Extension.