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Autore	Harris Jeremy
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Nota di contenuto	Preface; Introduction; Questionnaire Design and Target Researchers; Results of the Survey; Discussion; References; Appendix 1: Specialisms; Appendix 2: Regions; Appendix 3: The Questionnaire
Sommario/riassunto	The information reported in this book is based on a survey of more than 100 biopesticide research workers in developing countries. The results demonstrate that the main difficulties and constraints facing researchers related to a lack of expertise in the crucial later stages of development.
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Intro -- Preface -- Organization -- Contents -- Design Engineering -- Transient Processes Quality Indicators of the Rotation Lever Hydraulic Drive for the Dust-Cart Manipulator -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Vibration Damping of Lifting Mechanisms for Elevators Using Control Systems -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Mathematical Description of the Electromechanical System of the Lifting Mechanism -- 3.2 The Vibrations Damping by Establishing the Recommended Stiffness of the Winch Motor Mechanical Characteristics -- 3.3 Damping of Vibrations by the Elevator System Formation with the Corrective Feedback Engaging -- 4 Results and Discussion -- 5 Conclusions -- References -- Comparative Analysis of Design Methods for Pneumatic Control Systems -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Initial Data for Designing -- 3.2 Formalization of the Description of the Control System Work -- 3.3 Construction of Mathematical Model by Standard Positional Structure -- 3.4 Construction of a Mathematical Model by the Method of Minimization of a System of Logical Equations -- 4 Results and Discussion -- 5 Conclusion -- References -- Runner Control System of Kaplan Turbine -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 The Current State of Development of the Hydraulic Turbine Rotor Speed Control System -- 3.2 Analysis of Regulators -- 4 Results and Discussion -- 5 Conclusions -- References -- Dynamic Behavior of Vibratory Screening Conveyor Equipped with Crank-Type Exciter -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- A Curvilinear Blades Profile of Accelerating Devices -- 1 Introduction. 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Mechatronic Hydraulic System with Adaptive Regulator for a Manipulator of the Mobile Working Machine -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Vibration Modeling of the Steam Turbine Housing Considering the Impact of Linear Parameters -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 4.1 Mathematical Relations of the Analysis of the Influence of Linear Parameters -- 4.2 Calculation Models -- 4.3 Natural Frequency Calculations -- 4.4 Forced Oscillation Calculations -- 4.5 Range Calculations -- 4.6 Discussion -- 5 Conclusions -- References -- Experimental Evaluation of the Impact of the Diametral Clearance on Output Characteristics of a Planetary Hydraulic Motor -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Stabilization of the Transient Dynamic Characteristics for a Hydraulic Drive with a Planetary Hydraulic Motor -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Numerical Study of Hydrodynamic Characteristics of the Automatic Balancing Device Elements of the Centrifugal Pump -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Governing Equations -- 3.2 Numerical Model and Methodology -- 4 Results and Discussions -- 5 Conclusions -- References -- Design of the Curvilinear Axis of the Silage Pipeline -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Process Engineering. Baromembrane Separation Efficiency of Amber Solubilized Extract and Prospects for Its Industrial Application -- 1 Introduction -- 2

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An Increase in the Technological Properties of Mixtures in the Foundry Industry: A Novel Approach -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions

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Sommario/riassunto

This book reports on topics at the interface between mechanical and materials engineering, emphasizing aspects related to design, simulation, and manufacturing. It covers advanced methods in design engineering, applied to mechatronic systems, industrial equipment, turbines and drives. It reports on methods for improving the separation and prilling processes. It covers cutting-edge theoretical and experimental findings relating to material behavior, and materials, composites and coatings design. Further, it reports on advanced material treatments such as chemical-thermocycling, plasma deposition, and mechanical strengthening processes, among others. Based on the 6th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2023), held on June 6–9, 2023, in High Tatras, Slovak Republic, this second volume of a 2-volume set provides academics and professionals with extensive information on trends and technologies, and challenges and practice-oriented experience in all the above-mentioned areas.