1. Record Nr. UNINA9910455293603321

Autore	Gibson Bryan
Titolo	The new Home Office [[electronic resource]] : an introduction / / Bryan Gibson ; with a foreword by David Faulkner
Pubbl/distr/stampa	Hook, U.K., : Waterside Press Portland, Or., : North American distributor, International Specialised Book services, c2008
ISBN	1-281-75173-1 9786611751739 1-906534-73-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (172 p.)
Disciplina	353.40942
Soggetti	Crime prevention - Great Britain Internal security - Great Britain Electronic books. Great Britain Politics and government 21st century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	""Cover ""; ""Acknowledgements""; ""CONTENTS""; ""About the author""; ""The author of the Foreword""; ""Foreword""; ""Preface""; ""Contacting the Home Office""; ""1 The Home Office:An Overview""; ""2 Public Safety, Liberty and Protecting the Public""; ""3 The Police and Policing""; ""4 Crime Prevention and Crime Reduction""; ""5 Terrorism and Emergency Powers""; ""6 Border Controls, Immigration and Asylum""; ""7 Safeguarding Personal Identity""; ""8 Miscellaneous Home Office Responsibilities""; ""9 The Changed Role of the Home Secretary""; ""LIST OF BRITISH HOME SECRETARIES SINCE 1794"" ""10 A Fresh Start and a New Era""""Appendix I Home Office Aims, Objectives and Values""; ""Appendix II Home Secretarya€?s Statement""; ""Appendix III Citizenship and Britishness""; ""Appendix IV Some Further Reading and Internet Sources""; ""Index""; ""Back cover ""

2. Record Nr. UNINA9910760248203321

Autore	Tonkonogyi Volodymyr
Titolo	Advanced Manufacturing Processes V : Selected Papers from the 5th Grabchenko's International Conference on Advanced Manufacturing Processes (InterPartner-2023), September 5-8, 2023, Odessa, Ukraine / / edited by Volodymyr Tonkonogyi, Vitalii Ivanov, Justyna Trojanowska, Gennadii Oborskyi, Ivan Pavlenko
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031427787 3031427785
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (591 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Altri autori (Persone)	IvanovVitalii TrojanowskaJustyna OborskyiGennadii PavlenkoIv (Ivan)
Disciplina	670
Soggetti	Manufactures Engineering design Materials Machines, Tools, Processes Engineering Design Materials Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Design Engineering and Production Planning -- Computer Modeling of Casting Processes for Centrifugal Pump Parts -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 4.1 Design of a 3D Model of the "Guide Vanes" Part -- 4.2 Calculation of the Formation of Shrinkage Shells -- 4.3 Comparative Analysis of NovaFlow&amp -- Solid and MAGMASOFT Programs -- 5 Conclusions -- References -- Automatic Control "By Disturbance" Based on a Mechatronic Actuator -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Coupling Mechanism Conversion into a Power and Sensing Element -- 3.2 Sensing Element

Static Transfer Function -- 3.3 Increasing the Disturbance Control Range -- 3.4 Ball-Bearing Screw Converter -- 4 Results and Discussion -- 4.1 Patterns of the SE Design -- 4.2 Testing a Drill Head with MM Built-In -- 5 Conclusions -- References -- Influence of the Shape of Bevel Gear Wheel Bodies on Their Deformability -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Design of an Operator Interface for Controlling the Installation of Ion-Plasma Deposition -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 The Main Stages of the Operation of the Ion-Plasma Facility -- 3.2 Requirements and Features of the Technical Implementation of the Automated Process Control System for the Facility of Ion-Plasma Spraying -- 3.3 Formulation of Requirements for a Human-Machine Interface for Interaction Between the Operator and the Facility -- 4 Results and Discussion -- 5 Conclusions -- References -- Parametric Synthesis of Electrohydraulic Control System for Variable Displacement Pump -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology.
4 Results and Discussion -- 5 Conclusions -- References -- Mathematical Modeling of Thermomechanical Phenomena in Machining of Products Made of Functionally Graded Materials -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- A Control Configured Mechatronic Mechanism -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Machining Technology Influence on the MM Design -- 3.2 Control Configured Elements -- 3.3 A Mechatronic Mechanism Mathematical Model -- 4 Results and Discussion -- 4.1 Influence of the Helical Groove Angle on the Axial Machining Force -- 4.2 Results of Experimental MM Studies -- 5 Conclusions -- References -- Determination of an Effective Supply Chain: Case Study for Delivering Products from the USA to Ukraine -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Optimization of the Lifting Machines' Hoisting Mechanism Design Scheme -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Analysis of Methods for Reducing the Lifting Machines' Hoisting Mechanism Dynamic Loads During Acceleration When Cargo Lifting -- 3.2 Development of a Design Scheme for a Gearbox with Improved Dynamic Properties -- 3.3 Determining the Optimal Gear Ratios of the Gearbox Design Scheme with Improved Dynamic Properties -- 4 Results and Discussion -- 5 Conclusions -- References -- 3D Reconstruction of a Virtual Building Environment -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Manufacturing Technology and Machining Processes -- The Multifractal Analysis of Periodic Surface Relief of Parts After Face Milling -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology.
3.1 The MFA Implementation and Self-Similarity of Microforms on Specimen Surfaces -- 3.2 Specimens and Surface Imaging Features -- 4 Results and Discussion -- 5 Conclusions -- References -- Quaternion Model of Workpieces Orienting Movements in Manufacturing Engineering and Tool Production -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Regularities of Oscillations During Turning and End Milling -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- An Impact

of the Cutting Fluid Supply on Contact Processes During Drilling AISI 321 Stainless Steel -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Load Parameters of the Gear Machining by Power Skiving and Their Influence on the Machining System -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 4.1 Process Kinematics -- 4.2 Method of Computer Simulation of Undeformed Sheared Layers -- 4.3 Parameters of Cuts -- 4.4 Modeling of the Cutting Force -- 4.5 Determination of Friction Force, Circumferential Force, and Torque -- 5 Conclusions -- References -- Optimization of Cutting Modes During Sustainable Machining of Products Based on Economic Criteria -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 General Provisions -- 3.2 Development of an Algorithm for the Formation of Regulated Product Quality Parameters, Taking into Account the Influence of the Elements of the Technological System "Metal-Cutting Machine - Clamping Device - Metal-Cutting Tool(S) - Workpiece" -- 3.3 Using Markov Chains to Predict Quality Parameters During Parts Manufacturing -- 4 Results and Discussion -- 5 Conclusions -- References.

Calculation of the Accuracy of the Drill-String NC13 Thread Profile Turned from Difficult-to-Machine Steel -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Integrated Process Model for Development and Manufacturing of Customized Orthopedic Implants -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Creation of a Combined Technology for Processing Parts Based on the Application of an Antifriction Coating and Deforming Broaching -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Wear of Oval and Round Calibers Rolls of High-Speed Wire Block -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Modeling of Vibrational-Centrifugal Strengthening for Functional Surfaces of Machine Parts -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Methods of Research -- 3.2 Mathematical Apparatus for Solving a System of Differential Equations -- 4 Results and Discussion -- 4.1 Verification of the Mathematical Model -- 4.2 Initial Data for Mathematical Modelling -- 4.3 Modeling of Non-working and Working Modes of Operation of ESR with Elastic Systems -- 5 Conclusions -- References -- Advanced Materials -- Formation of 2D Copper Oxide Nanostructures on Substrates Exposed to Glow Discharge Plasma -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Formation of 2D Carbon Nanosheets and Carbon-Shelled Copper Nanoparticles in Glow Discharge -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References.

The Wear Resistance During Oscillating Friction of Steel Specimens with Strengthened Nanocrystalline Layers -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Temperature Field Behavior on Plate Width at Thermomechanical Rolling of Low Carbon Microalloyed Steel at the Steckel Mill -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Dependencies for Temperature Distribution Calculation -- 3.2 Dependencies

for Continuous Calculation of Physical and Thermophysical Properties of the Material -- 4 Results and Discussion -- 5 Conclusions -- References -- Mathematical Modeling of Technological Regulations of Furnace Equipment for Carbon Graphite Electrode Production -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Problem Statement -- 3.2 Generalized Mathematical Model -- 4 Results and Discussion -- 4.1 Redistribution of Calcination of Carbon-Containing Filler in an Electrocalciner -- 4.2 Redistribution of the Firing of Graphite Blanks in a Multi-chamber Ring Closed Furnace of the Riedhammer Type -- 5 Conclusions -- References -- Effects of Optimized Laser-Ultrasonic Surface Hardening Parameters on Residual Stress and Structure-Phase State of Medium-Carbon Steel -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussions -- 4.1 Surface Hardness -- 4.2 Structure Observation -- 4.3 Residual Stress Characterization -- 5 Conclusions -- References -- Numerical Evaluation of the Properties of Highly Efficient Titanium Porous Materials -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Structure and Thermal Stability of Vacuum Cu-Mo Condensates -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology.
4 Results and Discussion.

Sommario/riassunto

This book offers a timely snapshot of innovative research and developments at the interface between design, manufacturing, materials, mechanical and process engineering, and quality assurance. It covers various manufacturing processes, such as grinding, milling, broaching, and gear machining, including additive manufacturing, vibrational-centrifugal strengthening, laser-ultrasonic surface hardening, and antifriction coatings. It focuses on computer and numerical simulation, mathematical and integrated process modeling, parametric synthesis, virtual prototyping, automatic control, design of manufacturing, mechanical and mechatronics systems. It describes innovative cutting and abrasive processes and combined technologies. It also covers the formation, strengthening, and thermomechanical rolling. It also investigates the temperature field behavior, thermal stability, wear resistance, and other processes of various materials. Gathering the best papers presented at the 5th Grabchenko’ sInternational Conference on Advanced Manufacturing Processes (InterPartner-2023), held on September 5–8, 2023, in Odessa, Ukraine, this book provides a comprehensive and up-to-date examination of design, manufacturing, mechanical, materials, and process engineering, as well as quality assurance trends and technologies. Yet, it also aims at fostering international and interdisciplinary communication and collaborations, offering a bridge between the academic and industrial sector.