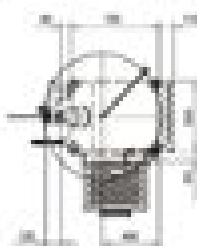
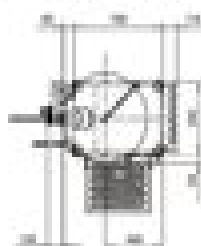
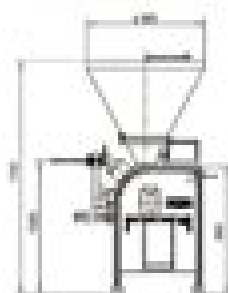
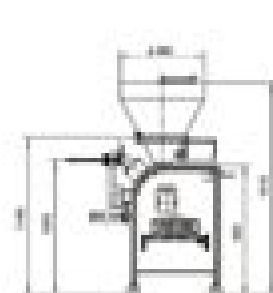


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Filling rate	depending on feed element up to 3.500 kg/h
Portion weight	0 - 20.000 g, can be set in increments of 0.5 g or 1 g
Portioning speed	up to 400 portions/min depending on product coating and portion size
Links	0 - 10, infinitely adjustable
Vacuum system	10 mbar
Hopper contents	100 l / 250 l (optional)
Weight	approx. 400 kg
Total nominal output	4.2 m³ at 50/60 Hz
Main motor	4 kW at 50/60 Hz

Nom. voltage	Frequency	Nom. cur.	Start-up cur.
200 - 400 V	50 Hz	17 A	20 A
200 - 250 V	60 Hz	17 A	20 A
200 - 400 V	60 Hz	9 A	20 A
200 - 250 V	50 Hz	12 A	20 A



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Developments in Analytical Methods in Pharmaceutical, Biomedical, and Forensic Sciences G. Piemonte, F. Tagliaro, M. Marigo, 1988-01-31 The papers collected in this volume were presented at an International Conference that with the same heading was held at the Verona University Italy in June 1986 The meeting was organized by the Institute of Forensic Medicine and the Laboratory of Medical Research of the University in cooperation with the Italian Group for Mass Spectrometry in Biochemistry and Medicine The aim of the symposium was bringing together people working in different branches of the wide field of modern analytical sciences for promoting interdisciplinary discussions and exchange of experiences Actually it was felt that most of the analytical problems that very often have to be faced in quite different fields chemistry pharmacology medicine biology have similar solutions that could be made much easier by closer contacts among researchers of these disciplines Original papers and invited reviews presented during the 3 days of the conference by leading experts gave an up to date outline of the modern analytical methods applied in pharmaceutical biomedical and forensic sciences and a glimpse of the future perspectives

Practical Manual for Laparoscopic & Hysteroscopic Gynecological Surgery Thoralf Schollmeyer, Liselotte Mettler, Dawn Ruther, Ibrahim Alkatout, 2013-02-28 This new edition brings surgeons fully up to date with the latest developments and technologies in laparoscopic and hysteroscopic gynaecological surgery Beginning with the history instruments and training of endoscopy each chapter focuses on a different condition presenting surgical procedures in a step by step process as well as possible complications The second edition includes new chapters on ovarian tumours ectopic pregnancy and tubal surgery as well as an up to date reference list Written by an extensive author and editor team from Europe the USA and Canada this practical manual features nearly 750 full colour images and illustrations and includes four interactive DVD ROMs demonstrating surgical procedures described in the book Key points New edition presenting latest developments in laparoscopic and hysteroscopic gynaecological surgery Includes new chapters on ovarian tumours ectopic pregnancy and tubal surgery Extensive author and editor team from Europe USA and Canada Includes nearly 750 colour images and illustrations and four interactive DVD ROMs Previous edition published in 2006

CAD/CAM Robotics and Factories of the Future Birendra Prasad, S. N. Dwivedi, R. Mahajan, 2013-12-19 The complete shop floor automation a lights out factory where workers initially set up all machines turn off the lights lock the door and the machine churns up the parts remains an unfulfilled dream Yet when we look at the enormity of the process of automation and integration even for the most simply conceived part factory we can recognize that automation has been applied and is being applied more so when it made sense from a cost benefit standpoint It is our nature to be dissatisfied with near term progress but when we realize how short a time the tools to do that automation have been available the progress is clearly noteworthy considering the multitudes of factors and the environment we have to deal with Most of the automation problems we confront in today's environment are multidisciplinary in nature They require not just the knowledge and

experience in various distinct fields but good cooperation from different disciplines organizations to adequately comprehend and solve such problems In Volume III we have many examples that reflect the current state of the art techniques of robotics and plant automation The papers for Volume III have been arranged in a logical order of automation planning automated assembly robot programming and simulation control motion coordination communication and networking to factories of the future

What Every Engineer Should Know about Robots Maurice I. Zeldman, 2024-11-01 This book summarizes the technology and economics of robotics It aims to provide sufficient data background so that the technologists can help in deciding about a corporate investment in robotics

Industrialized and Automated Building Systems Abraham Warszawski, 2003-09-02 Industrialized and Automated Building Systems presents a detailed and balanced evaluation of the benefits and drawbacks of industrialized building systems and considers technological managerial and economical aspects of industrialization automation in the industrialized building process in production construction and design and information technologies in design production and construction on site

Kinematic Modeling, Identification, and Control of Robotic Manipulators Henry W. Stone, 2012-12-06 The objective of this dissertation is to advance the state of the art in the kinematic modeling identification and control of robotic manipulators with rigid links in an effort to improve robot kinematic performance The positioning accuracy of commercially available industrial robotic manipulators depends upon a kinematic model which describes the robot geometry in a parametric form Manufacturing error in the machining and assembly of manipulators lead to discrepancies between the design parameters and the physical structure Improving the kinematic performance thus requires the identification of the actual kinematic parameters of each individual robot The identified kinematic parameters are referred to as the arm signature Existing robot kinematic models such as the Denavit Hartenberg model are not directly applicable to kinematic parameter identification In this dissertation we introduce a new kinematic model called the 5 Model which is applicable to kinematic parameter identification and use it as the foundation for our development of a general technique for identifying the kinematic parameters of any robot with rigid links

A Manager's Guide to Robotic Systems Datapro Research Corporation, 1985

Fundamentals of Engineering Economic Analysis John A. White, Kellie S. Grasman, Kenneth E. Case, Kim LaScola Needy, David B. Pratt, 2020-07-28 Fundamentals of Engineering Economic Analysis offers a powerful visually rich approach to the subject delivering streamlined yet rigorous coverage of the use of economic analysis techniques in engineering design This award winning textbook provides an impressive array of pedagogical tools to maximize student engagement and comprehension including learning objectives key term definitions comprehensive case studies classroom discussion questions and challenging practice problems Clear topically organized chapters guide students from fundamental concepts of borrowing lending investing and time value of money to more complex topics such as capitalized and future worth external rate of return depreciation and after tax economic analysis This fully updated second edition features substantial new and revised content that has been thoroughly redesigned to support different learning and

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Morpho-functional Machines: The New Species Fumio Hara,R. Pfeifer,2003-06-05 Morpho functional Machines are a set of tools for investigating the design of embodied intelligence in autonomous bio artifact systems The focus in Morpho functional Machines is on the balance of morphology materials and control intelligent behavior emerges from the interaction of an autonomous system with a real world environment How then should body morphology body materials and sensory systems be designed to achieve a certain set of tasks or desired behaviors in a particular environment This and other questions were addressed at the International Workshop on Morpho functional Machines held in Tokyo in 2001 Collected here are the revised papers from the workshop providing a new perspective for understanding embodied intelligence Presenting the innovative concept of Morpho functional Machines this book is a valuable source for scientists and engineers working in ethnology cognitive sciences robotic engineering and artificial intelligence

Automation and New Technology in the Clinical Laboratory Kiyoshi Okuda,1990 The proceedings of the 3rd International Congress on Automation and New Technology in the Clinical Laboratory held in Kobe Japan 1988

Remote Techniques for Nuclear Plant ,1993 This volume covers the practical application of remote technology to all types of nuclear plant both experimental and commercial It concentrates on the remote inspection refurbishment and decommissioning of reactor pressure vessels reactor internal components primary circuits boiler and steam generators PIE and fuel routes reprocessing plant and radioactive waste storage The emphasis is on equipment currently in use and it also covers equipment under consideration and development Consisting of 44 papers these proceedings draw on the experience of nuclear engineers from around the world to form a substantial reference work on remote techniques for the inspection and refurbishment of nuclear plant

Resources in Education ,1992-07

Lifespan Treatment for Autistic Individuals Peter Sturmey,Professor of Special Education Russell Lang,Russell Lang,Director of Clinical Development and Research James K Luiselli,James K. Luiselli,2025-07-21 In a world filled with hundreds of ASD treatments it is crucial to distinguish between evidence based practices and ineffective and potentially harmful pseudoscientific approaches Interpreting ASD treatment research is complicated by differences in research norms across disciplines competing theoretical underpinnings and misleading information available from media sources Overall these issues contribute to a gap between the outcomes demonstrated in scientific studies and what is achieved in applied settings e g schools homes and clinics Lifespan Treatment for Autistic Individuals guides professional practitioners in the selection of treatments that are procedurally and ethically best suited for their individual clients

Smart Robots V. Hunt,2013-03-07 Here is one of the first really thorough presentations on smart

robots Robots machine vision systems sensors manipulators expert systems and artificial intelligence concepts combined in state of the art computer integrated manufacturing systems These smart robots increase productivity and improve the quality of our products This comprehensive volume which is extensively illustrated provides a unique synthesis and overview of the emerging field of smart robots the basic approaches for each of the constituents systems the techniques used applications the descriptions of current hardware or software projects a review of the state of the art of the technology current research and development efforts and trends in the development of smart robots All of the information has been compiled from a wide variety of knowledgeable sources and recent government reports An extensive selection of photographs diagrams and charts amplify this book The contents of major chapters include Introduction to smart robots Artificial intelligence for smart robots Smart robot systems Sensor controlled robots Machine vision systems Robot manipulators Natural language processing Expert systems and Computer integrated manufacturing Smart Robots presents the state of the art in intelligent robots It is designed to help the reader develop an understanding of industrial applications of smart robots as well as the new technological developments Smart Robots is an outstanding introduction to the integration and application of machine vision systems sensors expert systems and artificial intelligence technology

ROMANSY 23 - Robot Design, Dynamics and Control Gentiane Venture, Jorge Solis, Yukio Takeda, Atsushi Konno, 2020-09-15 This book highlights the latest innovations and applications in robotics as presented by leading international researchers and engineers at the ROMANSY 2020 the 23rd CISM IFToMM Symposium on Theory and Practice of Robots and Manipulators The ROMANSY symposium is the first established conference that focuses on robotics theory and research rather than industrial aspects Bringing together researchers from a broad range of countries the symposium is held bi annually and plays a vital role in the development of the theory and practice of robotics as well as the mechanical sciences ROMANSY 2020 marks the 23rd installment in a series that began in 1973 The event was also the first topic specific conference of the IFToMM though not exclusively intended for the IFToMM community

Feature Detectors and Motion Detection in Video Processing Dey, Nilanjan, Ashour, Amira, Patra, Prasenjit Kr., 2016-10-25 Video is one of the most important forms of multimedia available as it is utilized for security purposes to transmit information promote safety and provide entertainment As motion is the most integral element in videos it is important that motion detection systems and algorithms meet specific requirements to achieve accurate detection of real time events Feature Detectors and Motion Detection in Video Processing explores innovative methods and approaches to analyzing and retrieving video images Featuring empirical research and significant frameworks regarding feature detectors and descriptor algorithms the book is a critical reference source for professionals researchers advanced level students technology developers and academicians

Handbook of Robotic and Image-Guided Surgery Mohammad Hossein Abedin Nasab, 2019-09-25 Handbook of Robotic and Image Guided Surgery provides state of the art systems and methods for robotic and computer assisted surgeries In this masterpiece contributions of 169 researchers from

19 countries have been gathered to provide 38 chapters This handbook is 744 pages includes 659 figures and 61 videos It also provides basic medical knowledge for engineers and basic engineering principles for surgeons A key strength of this text is the fusion of engineering radiology and surgical principles into one book A thorough and in depth handbook on surgical robotics and image guided surgery which includes both fundamentals and advances in the field A comprehensive reference on robot assisted laparoscopic orthopedic and head and neck surgeries Chapters are contributed by worldwide experts from both engineering and surgical backgrounds Robotic Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2020-01-03 Through expanded intelligence the use of robotics has fundamentally transformed a variety of fields including manufacturing aerospace medicine social services and agriculture Continued research on robotic design is critical to solving various dynamic obstacles individuals enterprises and humanity at large face on a daily basis Robotic Systems Concepts Methodologies Tools and Applications is a vital reference source that delves into the current issues methodologies and trends relating to advanced robotic technology in the modern world Highlighting a range of topics such as mechatronics cybernetics and human computer interaction this multi volume book is ideally designed for robotics engineers mechanical engineers robotics technicians operators software engineers designers programmers industry professionals researchers students academicians and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1990 **Atlas of Robotic Cardiac Surgery** W.Randolph Chitwood,2014-06-13 Robotic surgery is currently devoid of adequate didactic material necessary to facilitate daily application in cardiothoracic surgical practice This book represents the definitive atlas that will lead both the practicing and new cardiothoracic surgeons in these methods It will define the operative pathway of each procedure from beginning to end for surgeons who wish to be a complete robotic cardiac surgeon and include hints and procedural pitfalls derived from the experiences of chapter contributors The book will be illustrated with high quality illustrations and color photographs from surgical operations where appropriate Leading surgeons have contributed to the book and provided sample illustrations for their respective chapters Anesthetic and cardiopulmonary support preparation for each operation will be included and selected references will be provided to emphasize evidence based outcomes

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