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Practical Process Automation Software Process Automation Process Automation Handbook Industrial Process Automation Systems Workflow and Process Automation Overview of Industrial Process Automation Modern Business Process Automation Robotic Process Automation Industrial Automation and Process Control Practical Process Automation Robotic Process Automation with Blue Prism Quick Start Guide The Robotic Process Automation Handbook BUSINESS PROCESS AUTOMATION Measurement Technology for Process Automation Learning Robotic Process Automation Collaborative Process Automation Systems Guidelines for Safe Automation of Chemical Processes Robotic Process Automation (RPA) in the Financial Sector Blockchain and Robotic Process Automation Robotic Process Automation Projects Automated Continuous Process Control Business Process Reengineering Robotic Process Automation Tools, Process Automation and Their Benefits LEAN Mission Automation for Food Engineering Knowledge Automation Robotic Process Automation in Desktop Publishing Robotic Process Automation with Automation Anywhere Guidelines for Safe Automation of Chemical Processes The Automation Advantage: Embrace the Future of Productivity and Improve Speed, Quality, and Customer Experience Through AI The Simple Implementation Guide to Robotic Process Automation (Rpa) Mechatronic Systems and Process Automation Robotic Process Automation (RPA) - Digitization and Automation of Processes Robotic Process and Cognitive Automation: The Next Phase Workflow Automation with Microsoft Power Automate Industrial Cybersecurity The Software Architect Elevator Automate It with Zapier Overview of Industrial Process Automation Service Automation Framework

Robotic Process Automation with Blue Prism Quick Start Guide Feb 23 2022 Learn how to design and develop robotic process automation solutions with Blue Prism to perform important tasks that enable value creation in your work Key FeaturesDevelop robots with Blue PrismAutomate your work processes with Blue PrismLearn basic skills required to train a robot for process automationBook Description Robotic process automation is a form of business process automation where user-configured robots can emulate the actions of users. Blue Prism is a pioneer of robotic process automation software, and this book gives you a solid foundation to programming robots with Blue Prism. If you've been tasked with automating work processes, but don't know where to start, this is the book for you! You begin with the business case for robotic process automation, and then move to implementation techniques with the leading software for enterprise automation, Blue Prism. You will become familiar with the Blue Prism Studio by creating your first process. You will build upon this by adding pages, data items, blocks, collections, and loops. You will build more complex processes by learning about actions, decisions, choices, and calculations. You will move on to teach your robot to interact with applications such as Internet Explorer. This can be used for spying elements that identify what your robot needs to interact with on the screen. You will build the logic behind a business objects by using read, write, and wait stages. You will then enable your robot to read and write to Excel and CSV files. This will finally lead you to train your robot to read and send emails in Outlook. You will learn about the Control Room, where you will practice adding items to a queue, processing the items and updating the work status. Towards the end of this book you will also teach your robot to handle errors and deal with exceptions. The book concludes with tips and coding best practices for Blue Prism. What you will learnLearn why and when to introduce robotic automation into your business processesWork with Blue Prism StudioCreate automation processes in Blue PrismMake use of decisions and choices in your robotsUse UI Automation mode, HTML mode, Region mode, and spyingLearn how to raise exceptionsGet the robot to deal with errorsLearn Blue Prism coding best practicesWho this book is for The book is aimed at end users such as citizen developers who create business processes, but may not have the basic programming skills required to train a robot.No experience of BluePrism is required.

Overview of Industrial Process Automation Jul 31 2022 Overview of Industrial Process Automation, Second Edition, introduces the basics of philosophy, technology, terminology, and practices of modern automation systems through the presentation of updated examples, illustrations, case studies, and images. This updated edition adds new developments in the automation domain, and its reorganization of chapters and appendixes provides better continuity and seamless knowledge transfer. Manufacturing and chemical engineers involved in factory and process automation, and students studying industrial automation will find this book to be a great, comprehensive resource for further explanation and study. Presents a ready made reference that introduces all aspects of automation technology in a single place with day-to-day examples Provides a basic platform for the understanding of industry literature on automation products, systems, and solutions Contains a guided tour of the subject without the requirement of any previous knowledge on automation Includes new topics, such as factory and process automation, IT/OT Integration, ISA 95, Industry 4.0, IoT, etc., along with safety systems in process plants and machines
Measurement Technology for Process Automation Nov 22 2021 Almost every industry that use liquids and gas in any form has a need to measure flow, temperature and pressure. This text is a practical guide on how to accurately use these measuring instruments to control processes in manufacturing industries for food, beverages, chemicals, pharmaceuticals, oil, water and waste water, power, etc. With higher prices of raw materials and more severe requirements for safety and environmental issues, there is a growing demand to measure with higher precision. The book includes a number of practical examples from various industries. It discusses how to comply with safety standards regarding measurements and explains how legal control systems apply to measurements. The aim is to help any process industry reduce the risk of high costs and damage to both people and equipment.
Automate It with Zapier Oct 29 2019 Build easy and accessible solutions for automating mundane processes in marketing, sales, operations, and finance to enable teams to focus on core tasks Key Features: Learn Zapier and find solutions to specific problems with this comprehensive yet concise guide Explore various scenarios describing specific business problems and how they can be solved with Zapier Discover expert tips and practical examples to harness the full potential of Zapier Book Description: Zapier is an emerging no-code workflow automation technology that enables organizations to connect their cloud-based and web applications and automate data transfer between them. Zapier's built-in features and flexibility allow users to integrate thousands of business applications and create simple to complex automation to reduce time spent on repetitive tasks, thereby increasing productivity. This book is a must-have for business owners, their employees, and independent freelancers and contractors looking to use Zapier for business process automation. The book takes a hands-on approach to implementation and associated problem-solving methodologies that will have you up-and-running and productive in no time while leveling up your automation skills. You'll discover how to plan your automation building for optimal results, what are the native features available in Zapier, and the applications that connect with it, as well as how to optimally configure your workflows to automate your processes in as few steps as possible. Finally, you'll find out how to create advanced workflow automation from scratch and learn how to troubleshoot issues. By the end of this Zapier book, you'll be able to build your own advanced workflow automation using Zapier, addressing the key pain points encountered in businesses with manual and repetitive tasks. What You Will Learn: Think creatively to plan your business workflows to overcome specific business problems Get to grips with the native features and built-in applications available in Zapier Explore different types of third-party business applications that integrate with Zapier Configure your workflows optimally to automate business processes and minimize task usage Use Zapier's library of pre-built workflows and create advanced workflows from scratch Discover the extensive functionality and practical uses of Zapier's built-in apps Who this book is for: This book is for solutions architects, process consultants, business analysts, virtual assistants, digital marketers, CRM consultants, online business managers, technical consultants, bookkeepers, and accountants who want to deploy effective automation techniques in Zapier. This book will help micro, small, or medium-sized businesses to increase their productivity using workflow automation with Zapier, as well as freelancers and contractors providing digital process improvement, systemizing, and automation services. No prior experience with business process automation or Zapier is required.
LEAN Mission Jan 13 2021 Do you want to improve the efficiency of your processes but don't know

where to start? Do you realize that inefficiencies in your business are causing extra expense, delayed customer response and employee frustration? LEAN Mission takes you through initial opportunity identification, solution development and selection, launch and post-launch stabilization. Learn how to identify waste in areas that had not been obvious before. LEAN Mission also explains how to improve efficiency with Robotic Process Automation (RPA). You know you need to automate manual, repetitive tasks but don't know where to start? LEAN Mission walks you through the process systematically. Would you like to show your leaders that you can save money for them and/or use it more wisely? Whether you are management or an individual contributor, you can do just that with automation and process improvement. LEAN Mission is a practical guide. This is not a book that convinces you why you should optimize efficiency. LEAN Mission takes you step by step through identifying the processes within your organization that hold the most value from improvement and what steps to take to achieve optimal efficiency. It is the book Laura wishes she had when she was establishing automation and continuous process improvement programs.

Robotic Process Automation May 29 2022 This book brings together experts from research and practice. It includes the design of innovative Robot Process Automation (RPA) concepts, the discussion of related research fields (e.g., Artificial Intelligence, AI), the evaluation of existing software products, and findings from real-life implementation projects. Similar to the substitution of physical work in manufacturing (blue collar automation), Robotic Process Automation tries to substitute intellectual work in office and administration processes with software robots (white-collar automation). The starting point for the development of RPA was the observation that – despite the use of process-oriented enterprise systems (such as ERP, CRM and BPM systems) – additional manual activities are still indispensable today. In the RPA approach, these manual activities are learned and automated by software robots, either by defining rules or by observing manual activities. RPA is related to business process management, machine learning, and artificial intelligence. Tools for RPA originated from dedicated stand-alone software. Today, RPA functionalities are also integrated into elaborated process management suites. From a conceptual perspective, RPA can be structured into input components (sensors in the wide sense), an intelligence center, and output components (actuators in the wide sense). From a strategic perspective, the impact of RPA can be related to the support of existing tasks, the complete substitution of human activities, and the innovation of processes as well as business models. At present, high expectations are related to the use of RPA in the improvement of software-supported business processes. Manual activities are learned and automated by software robots that interact with existing applications via the presentation layer. In combination with artificial intelligence (AI) as well as innovative interfaces (e. g., voice recognition) RPA creates a novel level of automation for office and administration processes. Its benefit potential reaches a return on investment (ROI) up-to 800% that is documented in various case studies.

Blockchain and Robotic Process Automation Jun 17 2021 This book integrates the material of the lecture series “Blockchain and Robotic Process Automation”, offered at Kiel University. The lecture series sheds light on current research topics on blockchain and robotic process automation (RPA) also in combination with business process management (BPM) or process mining. In this series, leading scientists and business experts give insights into the use of the blockchain technology and RPA. The seven contributions included offer a general introduction into blockchain and smart contracts, and detail the extraction of meaningful events for process mining from blockchain, challenges of blockchain-based collaborative business processes, executing Decision Model and Notation decisions on the blockchain, a blockchain-based solution for digital payment, blockchain use cases in transportation and logistics, and automatically identifying process automation candidates using natural language processing. Overall, the book provides researchers and graduate students with a basic introduction into blockchain, its applications, useful combinations of BPM and blockchain, and use cases for RPA.

Robotic Process Automation Projects May 17 2021 Robotic Process Automation helps businesses to automate systems to reduce human efforts for tasks that are monotonous and can be performed by machines. This project based guide expands on the RPA principles and helps you build automation solutions for the real world using the most popular RPA tools - UiPath and Automation Anywhere Cloud.

The Software Architect Elevator Nov 30 2019 As the digital economy changes the rules of the game for enterprises, the role of software and IT architects is also transforming. Rather than focus on technical

decisions alone, architects and senior technologists need to combine organizational and technical knowledge to effect change in their company's structure and processes. To accomplish that, they need to connect the IT engine room to the penthouse, where the business strategy is defined. In this guide, author Gregor Hohpe shares real-world advice and hard-learned lessons from actual IT transformations. His anecdotes help architects, senior developers, and other IT professionals prepare for a more complex but rewarding role in the enterprise. This book is ideal for: Software architects and senior developers looking to shape the company's technology direction or assist in an organizational transformation Enterprise architects and senior technologists searching for practical advice on how to navigate technical and organizational topics CTOs and senior technical architects who are devising an IT strategy that impacts the way the organization works IT managers who want to learn what's worked and what hasn't in large-scale transformation

Industrial Process Automation Systems Oct 02 2022 Industrial Process Automation Systems: Design and Implementation is a clear guide to the practicalities of modern industrial automation systems. Bridging the gap between theory and technician-level coverage, it offers a pragmatic approach to the subject based on industrial experience, taking in the latest technologies and professional practices. Its comprehensive coverage of concepts and applications provides engineers with the knowledge they need before referring to vendor documentation, while clear guidelines for implementing process control options and worked examples of deployments translate theory into practice with ease. This book is an ideal introduction to the subject for junior level professionals as well as being an essential reference for more experienced practitioners. Provides knowledge of the different systems available and their applications, enabling engineers to design automation solutions to solve real industry problems. Includes case studies and practical information on key items that need to be considered when procuring automation systems. Written by an experienced practitioner from a leading technology company

Practical Process Automation Jan 05 2023 In todayÃ¢??s IT architectures, microservices and serverless functions play increasingly important roles in process automation. But how do you create meaningful, comprehensive, and connected business solutions when the individual components are decoupled and independent by design? Targeted at developers and architects, this book presents a framework through examples, practical advice, and use cases to help you design and automate complex processes. As systems are more distributed, asynchronous, and reactive, process automation requires state handling to deal with long-running interactions. Author Bernd Ruecker demonstrates how to leverage process automation technology like workflow engines to orchestrate software, humans, decisions, or bots. Learn how modern process automation compares to business process management, service-oriented architecture, batch processing, event streaming, and data pipeline solutions Understand how to use workflow engines and executable process models with BPMN Understand the difference between orchestration and choreography and how to balance both

Knowledge Automation Nov 10 2020 A proven decision management methodology for increased profits and lowered risks Knowledge Automation: How to Implement Decision Management in Business Processes describes a simple but comprehensive methodology for decision management projects, which use business rules and predictive analytics to optimize and automate small, high-volume business decisions. It includes Decision Requirements Analysis (DRA), a new method for taking the crucial first step in any IT project to implement decision management: defining a set of business decisions and identifying all the information—business knowledge and data—required to make those decisions. Describes all the stages in automating business processes, from business process modeling down to the implementation of decision services Addresses how to use business rules and predictive analytics to optimize and automate small, high-volume business decisions Proposes a simple "top-down" method for defining decision requirements and representing them in a single diagram Shows how clear requirements can allow decision management projects to be run with reduced risk and increased profit Nontechnical and accessible, Knowledge Automation reveals how DRA is destined to become a standard technique in the business analysis and project management toolbox.

Software Process Automation Dec 04 2022 Through the use of process automation, software developers can significantly improve software quality and software development productivity. This book reviews this technology and major process automation products, and provides adoption guidelines for potential users.

A special emphasis is placed on the process modeling language ProNet, which is commercially available.
Robotic Process Automation (RPA) - Digitization and Automation of Processes Apr 03 2020 This book provides a practice-oriented overview of the necessary prerequisites, the mode of operation, and the individual steps for the successful introduction of Robotic Process Automation (RPA). In addition to theoretical basics, practical examples from controlling and accounting illustrate the enormous potential of this technology....
Workflow Automation with Microsoft Power Automate Jan 31 2020 Make your organization more productive and simplify your workflow by using Microsoft Power Automate for business process automation Key Features Learn the latest in Power Automate with updated user interface visuals and new technology included Apply practical knowledge like managing user inputs, documents, approvals, and database storage Create flows that integrate with services both inside and outside the Microsoft 365 ecosystem Book Description MS Power Automate is a workflow automation tool built into MS 365 to help businesses automate repetitive tasks or trigger business processes without user intervention. It is a low-code tool that is part of the Microsoft applications framework, the Power Platform. If you are new to Power Automate, this book will give you a comprehensive introduction and a smooth transition from beginner to advanced topics to help you get up to speed with business process automation. Complete with hands-on tutorials and projects, this easy-to-follow guide will show you how to configure automation workflows for business processes between hundreds of applications, using examples within Microsoft and including third-party apps like Dropbox and Twitter. Once you understand how to use connectors, triggers, and actions to automate business processes, you'll learn how to manage user input, documents, and approvals, as well as interact with databases. This edition also introduces new Power Automate features such as using robotic process automation (RPA) to automate legacy applications, interacting with the Microsoft Graph API, and working with artificial intelligence models to do sentiment analysis. By the end of this digital transformation book, you'll have mastered the basics of using Power Automate to replace repetitive tasks with automation technology. What you will learn Learn the basic building blocks of Power Automate capabilities Explore connectors in Power Automate to automate email workflows Discover how to make a flow for copying files between cloud services Configure Power Automate Desktop flows for your business needs Build on examples to create complex database and approval flows Connect common business applications like Outlook, Forms, and Teams Learn the introductory concepts for robotic process automation Discover how to use AI sentiment analysis Who this book is for This book is excellent for information workers and Power users who are looking to automate repetitive tasks for their organizations or for projects they are undertaking. To make the most of this book you should have some basic exposure to the MS 365 platform.
Modern Business Process Automation Jun 29 2022 The ?eld of Business Process Management (BPM) is marred by a seemingly e- less sequence of (proposed) industry standards. Contrary to other ?elds (e.g., civil or electronic engineering), these standards are not the result of a widely supported consolidationofwell-understoodandwell-establishedconceptsandpractices.Inthe BPM domain, it is frequently the case that BPM vendors opportunistically become involved in the creation of proposed standards to exert or maintain their in?uence and interests in the ?eld. Despite the initial fervor associated with such standardi- tion activities, it is no less frequent that vendors either choose to drop their support for standards that they earlier championed on an opportunistic basis or elect only to partially support them in their commercial offerings. Moreover, the results of the standardization processes themselves are a concern. BPM standards tend to deal with complex concepts, yet they are never properly de?ned and all-too-often not informed by established research. The result is a plethoraof languagesand tools, with no consensuson conceptsand their implem- tation. They also fail to provide clear direction in the way in which BPM standards should evolve. One can also observe a dichotomy between the “business” side of BPM and its “technical” side. While it is clear that the application of BPM will fail if not placed in a proper business context, it is equally clear that its application will go nowhere if it remains merely a motivational exercise with schemas of business processes hanging on the wall gathering dust.
Mechatronic Systems and Process Automation May 05 2020 The book discusses the concept of process automation and mechatronic system design, while offering a unified approach and methodology for the modeling, analysis, automation and control, networking, monitoring, and sensing of various machines and

processes from single electrical-driven machines to large-scale industrial process operations. This step-by-step guide covers design applications from various engineering disciplines (mechanical, chemical, electrical, computer, biomedical) through real-life mechatronics problems and industrial automation case studies with topics such as manufacturing, power grid, cement production, wind generator, oil refining, incubator, etc. Provides step-by-step procedures for the modeling, analysis, control and automation, networking, monitoring, and sensing of single electrical-driven machines to large-scale industrial process operations. Presents model-based theory and practice guidelines for mechatronics system and process automation design. Includes worked examples in every chapter and numerous end-of-chapter real-life exercises, problems, and case studies.

Workflow and Process Automation Sep 01 2022 Based on the results of the study carried out in 1996 to investigate the state of the art of workflow and process technology, MCC initiated the Collaboration Management Infrastructure (CMI) research project to develop innovative agent-based process technology that can support the process requirements of dynamically changing organizations and the requirements of nomadic computing. With a research focus on the flow of interaction among people and software agents representing people, the project deliverables will include a scalable, heterogeneous, ubiquitous and nomadic infrastructure for business processes. The resulting technology is being tested in applications that stress an intensive mobile collaboration among people as part of large, evolving business processes. Workflow and Process Automation: Concepts and Technology provides an overview of the problems and issues related to process and workflow technology, and in particular to definition and analysis of processes and workflows, and execution of their instances. The need for a transactional workflow model is discussed and a spectrum of related transaction models is covered in detail. A plethora of influential projects in workflow and process automation is summarized. The projects are drawn from both academia and industry. The monograph also provides a short overview of the most popular workflow management products, and the state of the workflow industry in general. Workflow and Process Automation: Concepts and Technology offers a road map through the shortcomings of existing solutions of process improvement by people with daily first-hand experience, and is suitable as a secondary text for graduate-level courses on workflow and process automation, and as a reference for practitioners in industry.

Guidelines for Safe Automation of Chemical Processes Aug 08 2020 Increased automation reduces the potential for operator error, but introduces the possibility of new types of errors in design and maintenance. This book provides designers and operators of chemical process facilities with a general philosophy and approach to safe automation, including independent layers of safety.

Automated Continuous Process Control Apr 15 2021 An expert guide for understanding and applying process control Automated Continuous Process Control pulls together-in one compact and practical volume-the essentials for understanding, designing, and operating process control systems. This comprehensive guide covers the major elements of process control in a well-defined and ordered framework. Concepts are clearly presented, with minimal reliance on mathematical equations and strong emphasis on practical, real-life examples. Beginning with the very basics of process control, Automated Continuous Process Control builds upon each chapter to help the reader understand and efficiently practice industrial process control. This complete presentation includes: * A discussion of processes from a physical point of view * Feedback controllers and the workhorse in the industry-the PID controller * The concept and implementation of cascade control * Ratio, override (or constraint), and selective control * Block diagrams and stability * Feedforward control * Techniques to control processes with long dead times * Multivariable process control Applicable for electrical, industrial, chemical, or mechanical engineers, Automated Continuous Process Control offers proven process control guidance that can actually be used in day-to-day operations. The reader will also benefit from the companion CD-ROM, which contains processes that have been successfully used for many years to practice tuning feedback and cascade controllers, as well as designing feedforward controllers.

Guidelines for Safe Automation of Chemical Processes Aug 20 2021 This book provides designers and operators of chemical process facilities with a general philosophy and approach to safe automation, including independent layers of safety. An expanded edition, this book includes a revision of original concepts as well as chapters that address new topics such as use of wireless automation and Safety Instrumented Systems. This book also provides an extensive bibliography to related publications and

topic-specific information.

Collaborative Process Automation Systems Sep 20 2021 Providing a comprehensive overview of the state-of-the-art in Collaborative Process Automation Systems (CPAS), this book discusses topics such as engineering, security, enterprise connectivity, advanced process control, plant asset management, and operator efficiency. Collaborating with other industry experts, the author covers the system architecture and infrastructure required for a CPAS, as well as important standards like OPC and the ISA-95 series of standards. This in-depth reference focuses on the differences between a CPAS and traditional automation systems. Implications on modern automation systems are outlined in theory and practice. This book is ideal for industrial engineers, as well as graduate students in control and automation.

Robotic Process Automation in Desktop Publishing Oct 10 2020 Automation serves as an essential component in business to achieve company goals with qualitatively and quantitatively better results. The use of automation is also in the field of desktop publishing (DTP) indispensable to achieve cost savings in the company and to improve the final results through standardization and error reduction, as well as to relieve employees with regard to laborious and monotonous tasks. This essential aims to summarize the many possibilities of automation in the field of DTP, focusing on repetitive artwork processes in prepress.

Robotic Process Automation with Automation Anywhere Sep 08 2020 Discover Automation Anywhere best practices and strategies for building scalable automation solutions for your organization Key FeaturesBuild RPA robots using the latest features of cloud-based Automation Anywhere A2019Explore real-world scenarios with AA A2019 to understand the wide range of capabilities available for your RPA projectsBuild complete software robots to automate business processes with the help of step-by-step walkthroughsBook Description With an increase in the number of organizations deploying RPA solutions, Robotic Process Automation (RPA) is quickly becoming the most desired skill set for both developers starting their career and seasoned professionals. This book will show you how to use Automation Anywhere A2019, one of the leading platforms used widely for RPA. Starting with an introduction to RPA and Automation Anywhere, the book will guide you through the registration, installation, and configuration of the Bot agent and Control Room. With the help of easy-to-follow instructions, you'll build your first bot and discover how you can automate tasks with Excel, Word, emails, XML, and PDF files. You'll learn from practical examples based on real-world business scenarios, and gain insights into building more robust and resilient bots, executing external scripts such as VBScripts and Python, and adding error handling routines. By the end of this RPA book, you'll have developed the skills required to install and configure an RPA platform confidently and have a solid understanding of how to build complex and robust, yet performant, bots. What you will learnExplore effective techniques for installing and configuring an Automation Anywhere A2019 platformBuild software robots to automate tasks and simplify complex business processesDesign resilient bots that are modular and reusableUnderstand how to add error handling functionality and discover troubleshooting techniquesDesign bots to automate tasks in Excel, Word, emails, XML, and PDF filesImplement effective automation strategies using RPA best practicesWho this book is for This Automation Anywhere RPA book is for automation engineers, RPA professionals, and automation consultants who are looking to explore the capabilities of Automation Anywhere for building intelligent automation strategy for enterprises. A solid understanding of programming concepts and exposure to the Automation Anywhere platform is necessary to get started with this book.

The Robotic Process Automation Handbook Jan 25 2022 While Robotic Process Automation (RPA) has been around for about 20 years, it has hit an inflection point because of the convergence of cloud computing, big data and AI. This book shows you how to leverage RPA effectively in your company to automate repetitive and rules-based processes, such as scheduling, inputting/transferring data, cut and paste, filling out forms, and search. Using practical aspects of implementing the technology (based on case studies and industry best practices), you'll see how companies have been able to realize substantial ROI (Return On Investment) with their implementations, such as by lessening the need for hiring or outsourcing. By understanding the core concepts of RPA, you'll also see that the technology significantly increases compliance – leading to fewer issues with regulations – and minimizes costly errors. RPA software revenues have recently soared by over 60 percent, which is the fastest ramp in the tech industry, and they are expected to exceed $1 billion by the end of 2019. It is generally seamless with legacy IT

environments, making it easier for companies to pursue a strategy of digital transformation and can even be a gateway to AI. The Robotic Process Automation Handbook puts everything you need to know into one place to be a part of this wave. What You'll Learn Develop the right strategy and planDeal with resistance and fears from employeesTake an in-depth look at the leading RPA systems, including where they are most effective, the risks and the costsEvaluate an RPA system Who This Book Is For IT specialists and managers at mid-to-large companies

Learning Robotic Process Automation Oct 22 2021 Design RPA solutions to perform a wide range of transactional tasks with minimal cost and maximum ROI Key Features A beginner's guide to learn Robotic Process Automation and its impact on the modern world Design, test, and perform enterprise automation task with UiPath Create Automation apps and deploy them to all the computers in your department. Book Description Robotic Process Automation (RPA) enables automating business processes using software robots. Software robots interpret, trigger responses, and communicate with other systems just like humans do. Robotic processes and intelligent automation tools can help businesses improve the effectiveness of services faster and at a lower cost than current methods. This book is the perfect start to your automation journey, with a special focus on one of the most popular RPA tools: UiPath. Learning Robotic Process Automation takes you on a journey from understanding the basics of RPA to advanced implementation techniques. You will become oriented in the UiPath interface and learn about its workflow. Once you are familiar with the environment, we will get hands-on with automating different applications such as Excel, SAP, Windows and web applications, screen and web scraping, working with user events, as well as understanding exceptions and debugging. By the end of the book, you'll not only be able to build your first software bot, but also you'll wire it to perform various automation tasks with the help of best practices for bot deployment. What you will learn Understand Robotic Process Automation technology Learn UiPath programming techniques to deploy robot configurations Explore various data extraction techniques Learn about integrations with various popular applications such as SAP and MS Office Debug a programmed robot including logging and exception handling Maintain code version and source control Deploy and control Bots with UiPath Orchestrator Who this book is for If you would like to pursue a career in Robotic Process Automation or improve the efficiency of your businesses by automating common tasks, then this book is perfect for you. Prior programming knowledge of either Visual Basic or C# will be useful.

Practical Process Automation Mar 27 2022 In today's IT architectures, microservices and serverless functions play an increasingly important role. But how can you create meaningful, comprehensive, and connected business solutions if the individual components are decoupled and independent by design? This book provides a framework through examples and practical advice, and reveals how you can design complex processes in such an environment to deliver true business value. Systems that become more distributed, asynchronous, and reactive usually require state handling to deal with long-running interactions. Author Bernd Ruecker demonstrates how to use process automation technology to apply typical long-running patterns around resiliency, messaging, orchestration, or consistency without forcing your service implementation to become stateful itself. With this guide, you'll discover how process automation compares to business process management, service-oriented architecture, batch processing, event streaming, and data pipeline solutions. Learn how to utilize process automation in cloud-scale or low-latency scenarios Explore options for designing architecture that facilitates process automation Learn methods for modeling processes properly to avoid potential pitfalls Understand the difference between orchestration and choreography and how to balance both Examine process automation use cases to learn viable solutions and appreciate the possibilities

Robotic Process Automation (RPA) in the Financial Sector Jul 19 2021 Dieses Buch bringt Ihnen die Robotic Process Automation in der Finanzwirtschaft näher In der Finanzbranche ist das Thema Prozessautomatisierung seit Jahren nicht mehr wegzudenken. Doch wie setzt man solche Veränderungen im Rahmen des Changemanagements erfolgreich und effizient um? Das Buch „Robotic Process Automation in der Finanzwirtschaft“ zeigt es Ihnen. Im Fokus steht der recht junge RPA-Ansatz aus der Intelligent Automation. Dabei imitieren Roboter das menschliche Handeln. Die Eingabe von Befehlen erfolgt direkt über die Oberfläche. So gehören tiefgreifende Softwareveränderungen der Vergangenheit an. Im Zuge dessen klärt dieses Buch u. a. folgende Fragen bezüglich der Robotic Process Automation in

der Finanzwirtschaft: • Was ist RPA überhaupt? • Welche Vorteile bringt diese Technologie mit sich? • Welche Erfolgsfaktoren tragen zu einer optimalen RPA-Implementierung bei? • Wie sieht ein mögliches RPA-Kompetenzcenter aus? • Welche Anwendungsbereiche für RPA gibt es? Eine Leseempfehlung für ein breites Zielpublikum Daneben beschäftigen sich die Autoren nicht nur mit dem Ist-Zustand der Robotic Process Automation. Zudem erhalten Sie einen Ausblick auf die zukünftige Entwicklung dieser Software-Lösung. Durch den hohen Praxisbezug ist das Buch speziell für folgende Zielgruppen eine lesenswerte Empfehlung: • Verantwortliche für die Implementierung von Prozessen oder Technologien im IT-Bereich • RPA-Anwender und Personen, die sich dafür interessieren • Erfahrene Experten und Praktiker, die branchenübergreifend mit RPA vertraut sind

The Simple Implementation Guide to Robotic Process Automation (Rpa) Jun 05 2020 It is simple to start robotic process automation at your organizationas long as you start small. If you make it more complicated than it needs to be or try to have one person do everything, then youre destined to fail. In this guide to implementing RPA, the author examines critical issues, including how to: overcome common problems when implementing RPA in a full-scale effort; start an RPA implementation and successfully carry it out; obtain funding and support from leaders; and build an RPA team poised to succeed. The book includes pros and cons of various deployment strategies as well as key factors to consider for each option. Its filled with real examples and time lines to give you a realistic view of how to manage the process. This is a perfect quick-start guide to ensuring your organization has thought of all of the factors required to successfully navigate your RPA deployment.

Industrial Automation and Process Control Apr 27 2022 B> Covers PLCs, process control, sensors, robotics, fluid power, CNC, Lockout/Tagout and safety, and more. Offers such a wide array of topics that readers can use this book as a reference for many different issues in industrial automation. Featuring the greatest breadth and depth of coverage available on the subject, this practical book explores the main topics in industrial automation; and provides a much-needed, understandable discussion of process control. A comprehensive reference for professionals in industrial automation.

Robotic Process and Cognitive Automation: The Next Phase Mar 03 2020 This book examines real-world implementations of service automation technologies using Robotic Process Automation and Cognitive Automation tools. This newest, detailed research finds that RPA adoptions are accelerating, maturing, and scaling in global enterprise. The research covers multiple industries, applications, and shared services, and uses case studies to establish action principles and how to mitigate automation risks. The book also examines the first enterprise-worthy cognitive automation tools that use machine-learning algorithms to process big data, often in natural language form, and analyses three major detailed cases and the conditions for effective implementation. The book includes interviews with major clients, providers and analysts, and a detailed analysis of the automation and future of work debate. The book provides a compelling and incisive, evidence-based perspective on the direction and management of service automation, taking trends through to 2025. Automation technologies like RPA, CA, and the newest Blockchain technologies are found to transform and elevate human work rather than eliminate it.

Industrial Cybersecurity Jan 01 2020 Your one-step guide to understanding industrial cyber security, its control systems, and its operations. About This Book Learn about endpoint protection such as anti-malware implementation, updating, monitoring, and sanitizing user workloads and mobile devices Filled with practical examples to help you secure critical infrastructure systems efficiently A step-by-step guide that will teach you the techniques and methodologies of building robust infrastructure systems Who This Book Is For If you are a security professional and want to ensure a robust environment for critical infrastructure systems, this book is for you. IT professionals interested in getting into the cyber security domain or who are looking at gaining industrial cyber security certifications will also find this book useful. What You Will Learn Understand industrial cybersecurity, its control systems and operations Design security-oriented architectures, network segmentation, and security support services Configure event monitoring systems, anti-malware applications, and endpoint security Gain knowledge of ICS risks, threat detection, and access management Learn about patch management and life cycle management Secure your industrial control systems from design through retirement In Detail With industries expanding, cyber attacks have increased significantly. Understanding your control system's vulnerabilities and learning techniques to defend critical infrastructure systems from cyber threats is increasingly

important. With the help of real-world use cases, this book will teach you the methodologies and security measures necessary to protect critical infrastructure systems and will get you up to speed with identifying unique challenges.Industrial cybersecurity begins by introducing Industrial Control System (ICS) technology, including ICS architectures, communication media, and protocols. This is followed by a presentation on ICS (in) security. After presenting an ICS-related attack scenario, securing of the ICS is discussed, including topics such as network segmentation, defense-in-depth strategies, and protective solutions. Along with practical examples for protecting industrial control systems, this book details security assessments, risk management, and security program development. It also covers essential cybersecurity aspects, such as threat detection and access management. Topics related to endpoint hardening such as monitoring, updating, and anti-malware implementations are also discussed. Style and approach A step-by-step guide to implement Industrial Cyber Security effectively.

Business Process Reengineering Mar 15 2021 ?Business process reengineering (BPR) focuses on redesigning the strategic and value-added processes which transcend the organizational boundaries. It is a cross-functional approach that requires support from almost all the departments of the organization. Business Process Reengineering: Automation Decision Points in Process Reengineering offers a new framework based process reengineering and links it to organization life cycle, process life cycle, and process management. This volume describes the fundamental concepts behind business process reengineering and examines them through case studies, and should appeal to researchers and academics interested in business process reengineering, operations strategy, and organizational restructuring and design.

The Automation Advantage: Embrace the Future of Productivity and Improve Speed, Quality, and Customer Experience Through AI Jul 07 2020 From the global automation leaders at Accenture—the first-ever comprehensive blueprint for how to use and scale AI-powered intelligent automation in the enterprise to gain competitive advantage through faster speed to market, improved product quality, higher efficiency, and an elevated customer experience. Many companies were already implementing limited levels of automation when the pandemic hit. But the need to rapidly change business processes and how organizations work resulted in the compression of a decade's worth of digital transformation into a matter of months. Technology suddenly became the essential element for rapid organizational change and the creation of 360-degree value benefiting all stakeholders. Businesses are faced with the imperative to embrace that change or risk being left behind. In The Automation Advantage, global enterprise technology and automation veterans Bhaskar Ghosh, Rajendra Prasad, and Gayathri Pallail give business leaders and managers the action plan they need to execute a strategic agenda that enables them to quickly and confidently scale their automation and AI initiatives. This practical and highly accessible implementation guide answers leaders' burning questions, such as: How do I identify and prioritize automation opportunities? How do I assess my legacy systems and data issues? How do I derive full value out of my technology investments and automation efforts? How can I inspire my employees to embrace change and the new opportunities presented by automation? The Automation Advantage goes beyond optimizing process to using AI to transform almost any business activity in any industry to make it faster, more streamlined, cost efficient, and customer-focused—vastly improving overall productivity and performance. Featuring case studies of successful automation solutions, this indispensable road map includes guiding principles for technology, governance, culture, and leadership change. It offers a human-centric approach to AI and automation that leads to sustainable transformation and measurable business results.

Overview of Industrial Process Automation Sep 28 2019 This title teaches beginners the basics of automation, and it is also intended as a guide to teachers and trainers who are introducing the topic.

BUSINESS PROCESS AUTOMATION Dec 24 2021 This book discusses the major trends in Business Process Automation (BPA) and explains how BPA technologies and tools are applied in practice. It introduces the students to the concepts of BPA and describes the need for automation in business process management. The book illustrates live examples of different functions of an enterprise where automation has been successfully implemented to reap business benefits. It elaborates the applications of BPA in various sectors such as HR and payroll, marketing, e-governance, knowledge management and banking. The text also discusses in detail the role of Chief Information Officer (CIO) as a change agent for

designing and implementing automation initiatives. Return-on-Investment (ROI) calculations have been shown as a business case for automating business processes. Evaluation criteria for deciding which software package to be implemented have been thoroughly explained. Key Features : Provides case studies at the end of all chapters to help the students for easy understanding of the concepts discussed. Includes chapter-end questions to test students' comprehension of the subject. Presents a glossary of technical terms. The book is designed for the postgraduate students of management. It would be useful for the professionals and practitioners for implementation of process automation in organizations as well.
Process Automation Handbook Nov 03 2022 This book distils into a single coherent handbook all the essentials of process automation at a depth sufficient for most practical purposes. The handbook focuses on the knowledge needed to cope with the vast majority of process control and automation situations. In doing so, a number of sensible balances have been carefully struck between breadth and depth, theory and practice, classical and modern, technology and technique, information and understanding. A thorough grounding is provided for every topic. No other book covers the gap between the theory and practice of control systems so comprehensively and at a level suitable for practicing engineers.
Automation for Food Engineering Dec 12 2020 In the past ten years electronics and computer technologies have significantly pushed forward the progress of automation in the food industry. The application of these technologies to automation for food engineering will produce more nutritious, better quality, and safer items for consumers. Automation for Food Engineering: Food Quality Quantization and Process Control explores the usage of advanced methods, such as wavelet analysis and artificial neural networks, to automated food quality evaluation and process control. It introduces novel system prototypes, such as machine vision, elastography, and the electronic nose, for food quality measurement, analysis, and prediction. The book discusses advanced techniques, such as medical imaging, mathematical analysis, and statistical modeling, which have proven successful in food engineering. The authors use the characteristics of food processes to describe concepts, and they employ data from food engineering applications to explain the methods. To aid in the comprehension of technical information, they provide real-world examples and case studies from food engineering projects. The material covers the frameworks, techniques, designs, algorithms, tests and implementation of data acquisition, analysis, modeling, prediction, and control in automation for food engineering. It demonstrates the techniques for automation of food engineering, and helps you in the development of techniques for your own applications. Automation for Food Engineering: Food Quality Quantization and Process Control is the first and only book that gives a systematical study and summary about concepts, principles, methods, and practices in food quality quantization and process control.
Robotic Process Automation Tools, Process Automation and Their Benefits Feb 11 2021 Robotic process automation (RPA) is the use of software equipped with artificial intelligence (AI) and capabilities of machine learning (ML) so as to handle high volume, and repeatable task that required to be performed by humans previously. Though robotic process automation is mostly viewed as threat to job market since they have the ability to do several tasks continuously thus replacing employees, Some IT leaders takes it as a positive thing to human workers as they will eliminate mundane as well as repetitive work from their everyday tasks, allowing them to focus on much engaging projects and tasks. As the RPA take over the field, the will be new business opportunities, new roles, and more demands. The lucky are those who will embrace it since will prosper at the end. The Future of RPA: As technology is moving fast, people should expect things to witness in RPA field. Here are some of the predictions we have regarding the RPA. - The spread of RPA impact Within Organizations - Integration of RPA With Other Tools - Artificial Intelligence In near future use of automated tools in the organization will be part and parcel of any business.
Service Automation Framework Aug 27 2019 Service Automation is the concept of achieving customer loyalty by the use of automated technologies and builds upon a large demographic and sociological trend. We are the self-service generation, who are able to make our own decisions. The self-service generation is nowadays used to search, evaluate and purchase products online for a number of years now. This book will give you deep insight into the concept of Service Automation, the concept by which you can automate customer service in your organization. If you adequately apply Service Automation in your organization, you will see both employee and customer satisfaction rise and significantly increase the

number of people who ‘like’ your company. The Service Automation Framework (SAF®) has been created to find a methodical way to discuss Service Automation. It offers a simplistic version of any organization, which includes a number of processes that every organization can think of to systematically enhance its Service. As with any model, it is a simplified version of reality, but it structures the mind and provides uniform terminology when discussing the contents with co-workers and colleagues. Nothing more, nothing less. We encourage you to adapt and apply the model in any way that you see fit and which helps you and your organization. This book is intended for anyone who has ever experienced that the level of Service in his organization can be increased and is looking for guidance on a step-by-step model to achieve this, whether you are an entrepreneur, executive, consultant or work in the field of academia.

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