

Sap Abap Springer

This book presents a comprehensive overview of various aspects of mobility and transportation to be smart and seamless. It provides basic principles and trends of smart mobility as well as international examples. The topic of this work is especially interesting as the future of human centered and business triggered ecosystems is increasingly dependent on the coordination capabilities of all participating and influencing members to manage transportation needs. Even more the fulfillment of the right to mobility for individual and cargo related mobility asks for mobility enablement in a predictive, digital and intermodal manner. Therefore, this book is useful not only for decision makers in several positions but also for people who are interested in trends of transportation and mobility.

Optimization is a serious issue, touching many aspects of our life and activity. But it has not yet been completely absorbed in our culture. In this book the authors point out how relatively young even the word “model” is. On top of that, the concept is rather elusive. How to deal with a technology that finds applications in things as diverse as logistics, robotics, circuit layout, financial deals and traffic control? Although, during the last decades, we made significant progress, the broad public remained largely unaware of that. The days of John von Neumann, with his vast halls full of people frantically working mechanical calculators are long gone. Things that looked completely impossible in my youth, like solving mixed integer problems are routine by now. All that was not just

achieved by ever faster and cheaper computers, but also by serious progress in mathematics. But even in a world that more and more understands that it cannot afford to waste resources, optimization remains to a large extent unknown. It is quite logical and also fortunate that SAP, the leading supplier of enterprise management systems has embedded an optimizer in his software. The authors have very carefully investigated the capabilities and the limits of APO. Remember that optimization is still a work in progress. We do not have the tool that does everything for everybody.

It is now possible to gain competitive advantages based on consolidated R/3 system implementations. One of the most important optimisation aspects is a more consistent process integration in order to bring about fast, secure and cost effective business processes. This approach inevitably leads to Workflow Management and for SAP users to SAP® WebFlow®. This book introduces the topic of Workflow Management, gives an overview of the technical possibilities of SAP® WebFlow® and allows the reader to assess SAP workflow project risks and costs/benefits based on real life examples. Check lists and technical hints not only aid the reader in evaluating potential projects but also in the management of real life workflow project engineering.

Provides an overview to the exam's topics, including a "Need to Know" list that identifies areas that must be understood in-depth. Includes exercises that can be performed, usually with a smallest BW server. Contains practice test questions that assess the readers knowledge of the current exam topics. Serves as

a complement to the classroom training provided by SAP. Concentration tendencies, globalization, increasing cost pressure and well-informed customers all make up the hard competition faced by today's businesses. The "right" products, a successful market image, a strong positioning between suppliers and customers, efficient logistics and optimum organization structures contribute to a company's survival. Achieving this goal requires flexible information and communication systems that are fully adaptable to the specific situation. Modern retail information systems are not bound by organization borders but support both business partner cooperation and electronic commerce. This book presents the architecture of retail information systems, as well as the functions of SAP Retail, and in so doing links modern retail management with the implementation strategies based on innovative software systems.

Take a deep dive into SAP Fiori and discover Fiori architecture, Fiori landscape installation, Fiori standard applications, Fiori Launchpad configuration, tools for developing Fiori applications and extending standard Fiori applications. You will learn: Fiori architecture and its applications Setting up a Fiori landscape and Fiori Launchpad Configuring, customizing and enhancing standard Fiori applications Developing Fiori native applications for mobile Internet of Things-based custom Fiori applications with the HANA cloud platform Since Mathew, a SAP mobility expert working for an MNC in Germany, shows you how SAP Fiori, based on HTML5 technology, addresses the most widely and frequently used SAP transactions like purchase order approvals,

sales order creation, information lookup, and self-service tasks. This set of HTML5 apps provides a very simple and accessible experience across desktops, tablets, and smartphones. Prerequisites and steps for setting up a Fiori landscape and Launchpad Fiori standard application configuration Extending and customizing standard Fiori applications Developing custom Fiori applications from scratch Building custom Fiori applications for Internet Of Things using HANA cloud Fiori apps with cordova and kapsel plugins Master Advanced Business Application Programming (ABAP) Development Tools by installing, customizing, and using them in Eclipse. The book begins by describing the installation and customization of ABAP Development Tools in Eclipse and how to adjust the IDE to meet your requirements. You will discover the ABAP Development Tools functionality that helps you be more efficient in programming in the ABAP language, including refactoring, markers, quick fixes, unit testing, and much more. Moving on, you will cover the available Eclipse plugins that you can use with ABAP Development Tools to make Eclipse even more developer-friendly: ABAP Continuous Integration and ABAP Extensions. Finally, you will learn how to create your own Eclipse plugin that is integrated with ABAP Development Tools. This book is perfect for every ABAP developer who wants to get started with ABAP Development Tools in Eclipse, as well as experienced ADT users who would like to take advantage of hidden functions or external extensions for ADT and Eclipse. What You Will Learn Install and configure your ABAP in Eclipse to meet your personal

requirements Discover the functionalities of ABAP in Eclipse that will accelerate your development Use additional extensions to make your work with Eclipse more enjoyable Create your own plugin that works with ABAP in Eclipse Who This Book Is For ABAP developers that want or need to switch to Eclipse and current ABAP in Eclipse users who want to learn its possibilities and hidden features.

Web Dynpro ABAP, a NetWeaver web application user interface tool from SAP, enables web programming connected to SAP Systems. The authors' main focus was to create a book based on their own practical experience. Each chapter includes examples which lead through the content step-by-step and enable the reader to gradually explore and grasp the Web Dynpro ABAP process. The authors explain in particular how to design Web Dynpro components, the data binding and interface methods, and the view controller methods. They also describe the other SAP NetWeaver Elements (ABAP Dictionary, Authorization) and the integration of the Web Dynpro Application into the SAP NetWeaver Portal. The new edition has been expanded to include chapters on subjects such as POWER Lists; creating the Modal Windows and External Windows; using Web Dynpro application parameters and Shared Objects to communicate between the Web Dynpro ABAP Application and Business Server Pages; and creating multi-language mails using Web Dynpro ABAP.

“Logistic Core Operations with SAP” not only provides an overview of core logistics processes and functionality—it also shows how SAP’s Business Suite covers logistic core

operations, what features are supported, and which systems can be used to implement end-to-end processes in the following logistic core disciplines: Procurement, Distribution, Transportation, Warehouse Logistics and Inventory Management, and Compliance and Reporting. In this context the authors not only explain their integration, the organizational set-up, and master data, but also which solution fits best for a particular business need. This book serves as a solid foundation for understanding SAP software. No matter whether you are a student or a manager involved in an SAP implementation, the authors go far beyond traditional function and feature descriptions, helping you ask the right questions, providing answers, and making recommendations. The book assists you in understanding SAP terminology, concepts and technological components as well as their closed-loop integration. Written in a clear, straight-forward style and using practical examples, it contains valuable tips, illustrative screenshots and flowcharts, as well as best practices—showing how business requirements are mapped into software functionality.

SAP ABAP (Advanced Business Application Programming) offers a detailed tutorial on the numerous features of the core programming platform, used for development for the entire SAP software suite. SAP ABAP uses hands on business oriented use cases and a valuable dedicated e-resource to demonstrate the underlying advanced concepts of the OO ABAP environment and the SAP UI. SAP ABAP covers the latest version (NetWeaver 7.3 and SAP application programming release 6.0) of the platform for demonstrating the customization and implementation phases of the SAP software implementation. Void of theoretical treatments and preoccupation with language syntax, SAP ABAP is a comprehensive, practical one stop solution, which demonstrates and conveys the language's commands and

features through hands on examples. The accompanying e-resource is a take off point to the book. SAP ABAP works in tandem with the accompanying e-resource to create an interactive learning environment where the book provides a brief description and an overview of a specified feature/command, showing and discussing the corresponding code. At the reader's option, the user can utilize the accompanying e-resource, where a step-by-step guide to creating and running the feature's object is available. The presentation of the features is scenario oriented, i.e. most of the features are demonstrated in terms of small business scenarios. The e-resource contains the scenario descriptions, screen shots, detailed screen cams and ABAP program source to enable the reader to create all objects related to the scenario and run/execute them. The underlying concepts of a feature/command are conveyed through execution of these hands-on programs. Further exercises to be performed independently by the reader are also proposed. The demonstration/illustration objects including the programs rely on some of the SAP application tables being populated, for example an IDES system which is now a de facto system for all SAP training related activities.

'ABAP Objects' comprehensively covers the new object oriented generation of SAP's programming language ABAP. The book shows how to design the most important business processes in the sales area of each company by using the SAP module SD. It contains valuable tips and examples that show sales reps and managers and distribution center employees how to get up and running quickly with SAP while saving time and money. The book provides a concise introduction setting out the case for integrating business functionality on the web. Furthermore the book helps to understand SAP APO in the context of SCM. It is addressed specifically to those who need to implement APO in the

context of the sales processes. Last not least the author offers a walk-through of the process, from inception through planning, designing and testing.

Over the last few years, financial statement scandals, cases of fraud and corruption, data protection violations, and other legal violations have led to numerous liability cases, damages claims, and losses of reputation. As a reaction to these developments, several regulations have been issued:

Corporate Governance, the Sarbanes-Oxley Act, IFRS, Basel II and III, Solvency II and BilMoG, to name just a few. In this book, compliance is understood as the process, mapped not only in an internal control system, that is intended to guarantee conformity with legal requirements but also with internal policies and enterprise objectives (in particular, efficiency and profitability). The current literature primarily confines itself to mapping controls in SAP ERP and auditing SAP systems. Maxim Chuprunov not only addresses this subject but extends the aim of internal controls from legal compliance to include efficiency and profitability and then well beyond, because a basic understanding of the processes involved in IT-supported compliance management processes are not delivered along with the software. Starting with the requirements for compliance (Part I), he not only answers compliance-relevant questions in the form of an audit guide for an SAP ERP system and in the form of risks and control descriptions (Part II), but also shows how to automate the compliance management process based on SAP GRC (Part III). He thus addresses the current need for solutions for implementing an integrated GRC system in an organization, especially focusing on the continuous control monitoring topics. Maxim Chuprunov mainly targets compliance experts, auditors, SAP project managers and consultants responsible for GRC products as readers for his book. They will find indispensable information for their daily work from the first to

the last page. In addition, MBA, management information system students as well as senior managers like CIOs and CFOs will find a wealth of valuable information on compliance in the SAP ERP environment, on GRC in general and its implementation in particular.

This volume contains the Proceedings of the 5th International Workshop on Soft Computing Applications (SOFA 2012). The book covers a broad spectrum of soft computing techniques, theoretical and practical applications employing knowledge and intelligence to find solutions for world industrial, economic and medical problems. The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains. The conference papers included in these proceedings, published post conference, were grouped into the following area of research: · Soft Computing and Fusion Algorithms in Biometrics, · Fuzzy Theory, Control and Applications, · Modelling and Control Applications, · Steps towards Intelligent Circuits, · Knowledge-Based Technologies for Web Applications, Cloud Computing and Security Algorithms, · Computational Intelligence for Biomedical Applications, · Neural Networks and Applications, · Intelligent Systems for Image Processing, · Knowledge Management for Business Process and Enterprise Modelling. The combination of intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains.

Master SAP scripts, Smartforms, and data migration with hands-on exercises. The information provided in this book will help you decode the complexities and intricacies of SAP ABAP programming. Pro SAP Scripts, Smartforms, and Data Migration begins by describing the components of a SAP

script: forms, styles, and standard texts. It then shows you how an ABAP program can invoke a SAP script form and send data to the form to provide output. You will then apply these concepts to hands-on exercises covering real business scenarios. These scenarios include creating a custom form from scratch to output purchase orders. Smartforms will then be introduced as an enhanced tool to output business documents. The book will show you how to apply the concepts of Smartforms to real-world problems. The data migration material includes details of the Legacy System Migration Workbench (LSMW). This is introduced as a platform from which every data migration task can be performed, minimizing or eliminating programming. What You Will Learn Create and deploy SAP script forms and related objects Modify a copy of a SAP-supplied SAP script form, configure it, and deploy it according to transaction code ME22N Build Smartforms forms and deploy them Carry out data migration using the batch input and call transaction methods Perform data migration using all four methods available in LSMW Modify a copy of a SAP-supplied Smartforms form, configure it, and deploy it according to transaction code NACE Who This Book Is For Readers new to SAP ABAP programming (close to three years of experience or less) are the primary target audience for this book. Intermediate users can also utilize this book as a reference source.

Before use, standard ERP systems such as SAP R/3 need to be customized to meet the concrete requirements of the individual enterprise. This book provides an overview of the process models, methods, and tools offered by SAP and its partners to support this complex and time-consuming process. It begins by characterizing the foundations of the latest ERP systems from both a conceptual and technical viewpoint, whereby the most important components and

functions of SAP R/3 are described. The main part of the book then goes on to present the current methods and tools for the R/3 implementation based on newer process models (roadmaps).

First and only book on the Java 5, including new Java EE 5, for SAP/ABAP programmers The author has given the first course of its kind in Belgium, and employs his experience and approach in this book More Java development or exposure to Java needed by SAP/ABAP programmers and developers as evidenced by NetWeaver, for example

Plant biotechnology applies to three major areas of plants and their uses: (1) control of plant growth and development; (2) protection of plants against biotic and abiotic stresses; and (3) expansion of ways by which specialty foods, biochemicals, and pharmaceuticals are produced. The topic of recent advances in plant biotechnology is ripe for consideration because of the rapid developments in this field that have revolutionized our concepts of sustainable food production, cost-effective alternative energy strategies, environmental bioremediation, and production of plant-derived medicines through plant cell biotechnology. Many of the more traditional approaches to plant biotechnology are woefully out of date and even obsolete. Fresh approaches are therefore required. To this end, we have brought together a group of contributors who address the most recent advances in plant biotechnology and what they mean for human progress, and hopefully, a more sustainable future. Achievements today in plant biotechnology have already surpassed all previous expectations. These are based on promising accomplishments in the last several decades and the fact that plant biotechnology has emerged as an exciting area of research by creating unprecedented opportunities for the manipulation of biological systems. In connection with its recent advances, plant biotechnology now allows for the

transfer of a greater variety of genetic information in a more precise, controlled manner. The potential for improving plant productivity and its proper use in agriculture relies largely on newly developed DNA biotechnology and molecular markers.

Conquer your fear and anxiety learning how the concepts behind object-oriented design apply to the ABAP programming environment. Through simple examples and metaphors this book demystifies the object-oriented programming model. Object-Oriented Design with ABAP presents a bridge from the familiar procedural style of ABAP to the unfamiliar object-oriented style, taking you by the hand and leading you through the difficulties associated with learning these concepts, covering not only the nuances of using object-oriented principles in ABAP software design but also revealing the reasons why these concepts have become embraced throughout the software development industry. More than simply knowing how to use various object-oriented techniques, you'll also be able to determine whether a technique is applicable to the task the software addresses.

This book:

- div Shows how object-oriented principles apply to ABAP program design
- Provides the basics for creating component design diagrams
- Teaches how to incorporate design patterns in ABAP programs

What You'll Learn

- Write ABAP code using the object-oriented model as comfortably and easily as using the procedural model
- Create ABAP design diagrams based on the Unified Modeling Language
- Implement object-oriented design patterns into ABAP programs
- Reap the benefits of spending less time designing and maintaining ABAP programs
- Recognize those situations where design patterns can be most helpful
- Avoid long and exhausting searches for the cause of bugs in ABAP programs

Who This Book Is For

Experienced ABAP programmers who remain unfamiliar with the design potential presented by the object-oriented aspect of the language

Many of the initial developments towards the Internet of Things have focused on the combination of Auto-ID and networked infrastructures in business-to-business logistics and product lifecycle applications. However, the Internet of Things is more than a business tool for managing business processes more efficiently and more effectively – it will also enable a more convenient way of life. Since the term Internet of Things first came to attention when the Auto-ID Center launched their initial vision for the EPC network for automatically identifying and tracing the flow of goods within supply-chains, increasing numbers of researchers and practitioners have further developed this vision. The authors in this book provide a research perspective on current and future developments in the Internet of Things. The different chapters cover a broad range of topics from system design aspects and core architectural approaches to end-user participation, business perspectives and applications.

SAP S/4HANA is here, and the stakes are high. Get your project right with this guide to SAP Activate! Understand the road ahead: What are the phases of SAP Activate? Which activities happen when? Start by setting up a working system, then walk through guided configuration, and learn how to deploy SAP S/4HANA in your landscape: on-premise, cloud, or hybrid. Take advantage of SAP Activate's agile methodology, and get the guidance you need for a smooth and successful go-live! In this book, you'll learn about:

- a. Foundations Get up to speed with SAP Activate. Learn about key concepts like fit-to-standard and fit/gap analysis, understand the methodology, and walk through the key phases of project management.
- b. Tools and Technologies Open up your SAP Activate toolkit. See how to access SAP Activate content with SAP Best Practices Explorer, SAP Solution Manager, and more. Then, use SAP Best Practices and SAP Model Company to set up a working system for your

workshops. c. Deployment Deploy SAP S/4HANA, step by step. Follow detailed instructions to plan, prepare for, and execute your on-premise or cloud deployment activities according to SAP Activate. Walk through key scenarios for a hybrid implementation of SAP S/4HANA in your landscape. Highlights Include: 1) Deployment 2) Guided configuration 3) Agile project delivery 4) SAP Best Practices 5) SAP Model Company 6) Organizational change management 7) SAP S/4HANA 8) SAP S/4HANA Cloud 9) Hybrid landscapes 10) C_ACTIVATION05 certification

This book - compiled by software architects from SAP - is a must for consultants, developers, IT managers, and students working with SAP ERP, but also users who want to know the world behind their SAP user interface.

In this book, noted expert Andrew Okungbowa explains SAP Asset Accounting (FI-AA) in SAP-ERP, including its associated business benefits, and guides you through the considerable complexities of SAP-ERP configuration. Using FI-AA for fixed asset management enables you to manage assets in multinational companies across a broad range of industries and produce reports to meet various needs in line with legal requirements. Configuring SAP-ERP can be a daunting exercise, however, and there are few resources that address these issues. Asset Accounting Configuration in SAP ERP fills that resource gap by covering the major aspects of SAP FI-AA for anyone with SAP experience and the basic accounting knowledge and bookkeeping skills necessary to apply configuration. It provides configuration explanations in the simplest forms possible and provides step-by-step guidance with illustrations and practical examples. What You'll Learn

- In-depth coverage of FI-AA syllabus
- How to configure FI-AA accounting in SAP
- How to integrate FI-AA accounting with other SAP modules
- How to explain the functionalities of SAP FI-AA

Knowledge gained from real-

world practical examples and case studies Who This Book Is For The key target audience for this book includes SAP consultants, developers, accountants, support organizations and beginners. It is also a resourceful learning manual for universities and institutions whose curricula covers SAP-ERP Asset Accounting.

Master the SAP product ecosystem, the client environment, and the feasibility of implementing critical business process with the required technical and functional configuration. SAP Project Management Pitfalls is the first book to provide you with real examples of the pitfalls that you can avoid, providing you with a road-map to a successful implementation. Jay Kay, a SAP Program Manager for Capgemini, first takes a deep dive into common pitfalls in implementing SAP ERP projects in a complex IT landscape. You will learn about the potential causes of failures, study a selection of relevant project implementation case studies in the area, and see a range of possible countermeasures. Jay Kay also provides background on each - the significance of each implementation area, its relevance to a service company that implements SAP projects, and the current state of research. Key highlights of the book: Tools and techniques for project planning and templates for allocating resources Industry standards and innovations in SAP implementation projects in the form of standard solutions aimed at successful implementation Managing SAP system ECC upgrades, EHP updates and project patches Learn effective ways to implement robust SAP release management practices (change management, BAU) Wearing a practitioner's insight, Jay Kay explores the relevance of each failed implementation scenario and how to support your company or clients to succeed in a SAP implementation. There are many considerations when implementing SAP, but as you will learn, knowledge, insight, and effective tools to mitigate risks can

take you to a successful implementation project.

Web Dynpro ABAP, a NetWeaver web application user interface tool of SAP enables web programming connected to SAP Systems. The main focus of the authors was to create a book based on practical experience. Each chapter includes examples which lead through the content step-by-step and enable the reader to gradually emerge in the topic of the Web Dynpro ABAP process. The authors explain in particular how to design a Web Dynpro component, the data binding and interface methods, and the view controller methods. They also describe the other SAP NetWeaver Elements (ABAP Dictionary, Authorization) and the integration of the Web Dynpro Application into the SAP NetWeaver Portal.

SAP ERP modules are notoriously hard to configure and use effectively without a lot of practice and experience. But as SAP ERP Financial Accounting and Controlling: Configuration and Use Management shows, it doesn't have to be so difficult. The book takes a systematic approach that leads SAP Financial Accounting and Controlling (FICO) users step by step through configuring and using all the program's facets. This approach makes configuration complexities manageable. The book's author—SAP expert, trainer, and accountant Andrew Okungbowa—ensures that both you and your end users are up and running quickly and confidently with FICO. He also provides sound and tested

procedures that ensure your implementation works without error. SAP ERP Financial Accounting and Controlling: Configuration and Use Management is in fact the most comprehensive and easy-to-follow SAP FICO configuration book in the market. It incorporates a hands-on approach, with hundreds of screen shots and practical examples, that allows a person without prior configuration training to make SAP FICO ready for use in the enterprise. You'll find that you don't need to be a rocket scientist to grasp the concepts explained and apply them to your work—even when the finances are complicated, such as with the ins and outs of taxes, currency conversions, or special general ledger entries such as down payments or bills of exchange. Providing an in-depth coverage of both configuration and end user procedures, the book covers most aspects of the SAP FICO certification syllabus—SAP's view of the module's key tasks and procedures—including:

- Configuring and using the general ledger and accounts payable and receivable screens
- Configuring and completing closing procedures, asset accounting, and financial reporting
- Configuring global settings and enterprise variables
- Accounting for both profit and cost centers
- Creating a house bank
- Integrating FICO with other SAP modules

Taking a jargon-free tone and providing an abundance of examples, Andrew Okungbowa provides a clear understanding of configuration

techniques and the breadth of functionalities encompassed by SAP FICO. And as an accountant, Okungbowa understands the needs of end users as well as of those answering to the CIO.

R/3 is a business system that has gained global prominence. However, the SAP R/3 has 237,000 function modules. Quite often programmers are unaware that a module exists which can be of help in their programs. This convenient resource is a collection of the most common ABAP modules, demonstrated within simple programs. These programs for easily searchable examples can be accessed from

<http://extras.springer.com/978-1-85233-775-9> The modules in this book are organised for quick reference. This concise reference contains: A full explanation of the layout of reference entries; a brief introduction to SAP; coverage of conversion and date and time modules; file and directory modules; list, long texts, and number modules; useful integration modules for MSOffice and pop-up dialog box management. This book organises over 300 modules, many of which are undocumented in text, and arranges them for quick and easy reference, and explains when and where to use the most common SAP R/3 ABAP function modules.

This book offers a comprehensive guide to implementing SAP and HANA on private, public and hybrid clouds. Cloud computing has transformed the

way organizations run their IT infrastructures: the shift from legacy monolithic mainframes and UNIX platforms to cloud based infrastructures offering ubiquitous access to critical information, elastic provisioning and drastic cost savings has made cloud an essential part of every organization's business strategy. Cloud based services have evolved from simple file sharing, email and messaging utilities in the past, to the current situation, where their improved technical capabilities and SLAs make running mission-critical applications such as SAP possible. However, IT professionals must take due care when deploying SAP in a public, private or hybrid cloud environment. As a foundation for core business operations, SAP cloud deployments must satisfy stringent requirements concerning their performance, scale and security, while delivering measurable improvements in IT efficiency and cost savings. The 2nd edition of "SAP on the Cloud" continues the work of its successful predecessor released in 2013, providing updated guidance for deploying SAP in public, private and hybrid clouds. To do so, it discusses the technical requirements and considerations necessary for IT professionals to successfully implement SAP software in a cloud environment, including best-practice architectures for IaaS, PaaS and SaaS deployments. The section on SAP's in-memory database HANA has been significantly extended to

cover Suite on HANA (SoH) and the different incarnations of HANA Enterprise Cloud (HEC) and Tailored Datacenter Integration (TDI). As cyber threats are a significant concern, it also explores appropriate security models for defending SAP cloud deployments against modern and sophisticated attacks. The reader will gain the insights needed to understand the respective benefits and drawbacks of various deployment models and how SAP on the cloud can be used to deliver IT efficiency and cost-savings in a secure and agile manner.

10 years ago, in the flourishing atmosphere of India's high-tech city, Bangalore, SAP Labs was established as small development facility. Known to be one of the world's most promising destinations for foreign investments, India is where SAP AG chose to locate what is now their largest R&D and Services Center outside Germany. The unique 10-year success story of this organization is presented by two authors who were instrumental in setting up business of SAP Labs India and contributed in growing it to today's strength of 4000 employees. The authors discuss development, innovation, and management strategies, combining their own personal experiences and those of other longtime company employees along with statements from SAP board members, to provide a comprehensive and detailed picture of the events and reasoning behind the venture. Anyone

interested in understanding the opportunities and challenges of carrying out distributed product development on a global scale from India will find this book an invaluable companion.

Web Dynpro ABAP ermöglicht die Web-Programmierung von Anwendungen, die durch SAP-Systeme verbunden sind. Der Band bietet eine Schritt-für-Schritt-Einführung in Web Dynpro ABAP. Leser sollen durch das Erarbeiten der praxisbasierten Beispiele in die Lage versetzt werden, die verschiedenen Komponenten dieser Web-Programmierung zu verstehen und anzuwenden. Die Autoren vermitteln auch den Zusammenhang zwischen Web Dynpro ABAP und anderen SAP NetWeaver-Elementen wie z. B. ABAP Dictionary, Autorisierung und Portal Interaction.

Gain an in-depth understanding of the large number of common problems found in ABAP programs and have a robust methodology for fixing problems when you find them. This book also shows you how to prevent them from occurring in new programs. A large chunk of the world's biggest organizations use SAP software and virtually all of them have very large amounts of custom code. However, a lot of that custom code is not as good as it could be. In this book we look at why object-oriented programming is the basic building block for improved program quality and at the test-driven development that this enables. We cover the three pillars of clarity, stability, and

high performance on which a high-quality ABAP program stands. You will then move on to the user interface, which needs its own set of standards for high quality. In the final chapters, you will learn about specialist topics such as user exits, making sure code will run on the latest releases of SAP, and how to add your own automated custom code quality checks. What You Will Learn Know why object-oriented programming and test-driven development are the cornerstones of high-quality custom code Ensure that the three pillars of clarity, stability, and high performance are fulfilled Make sure your applications are user friendly Ensure that your custom code works on newer SAP releases Create your own custom code quality checks Who This Book Is For ABAP developers who started yesterday or have been programming for 20 years The authors introduce an analysis and design method customized to form-based enterprise applications, the predominant type of business application. The text provides a comprehensive introduction to form-based systems, explaining their common properties and giving at the same time a hands-on introduction to the modeling of such systems. Form-based enterprise applications are modeled by a bipartite state machine and a tiered data model as a class diagram. The modeling method is explained with the TCW-3 online bookshop as a running example, in which the user

can experience the modeling concepts in action.

The ABAP/4 workbench presented here is built on the enterprise-wide data model of R/3 and contains all the tools needed for the effective development of large program systems in distributed teams. The book explains how to apply the development environment such that R/3 users and advisors can extend and adapt the system to their special needs. In particular, the text focuses on how to solve interface problems and the integration of desktop PCs into R/3. The source code for all examples is included on the accompanying diskette.

Easily master JavaScript (JS) with this quick guide and develop mobile and desktop applications for SAP Fiori. This book equips ABAP/SAP developers with the essential topics to get started with JS. The focus of JavaScript Essentials for SAP ABAP Developers is on the parts of the JS language that are useful from the perspective of an ABAP developer. The book starts with a brief intro to HTML, the basics of JS, and how to create and run a simple JS program. It then dives into the details of the language, showing how to make simple programs. It covers loops in detail, mathematical operations, and string and regular expressions in JS, as well as a taste of functions, followed by objects and object-oriented programming in JavaScript. The book provides: Sample code and screenshots to help you fully understand JS A chapter on JS best practices and recommendations Differences and comparisons of the elements and data structures of ABAP and JavaScript to help you quickly master the material What You'll Learn Create and run a simple JavaScript program Understand loops, operations, and expressions Master the Create and Use functions Use objects and object-oriented programming in JS Apply the best practices of JS programming Who This Book Is For SAP programmers and

developers, ABAP users and developers, and university students learning ABAP and JavaScript

This book reports on topics at the interface between manufacturing and materials engineering, with a special emphasis on product design and advanced manufacturing processes, intelligent solutions for Industry 4.0, covers topics in ICT for engineering education, describes the numerical simulation and experimental studies of milling, honing, burnishing, grinding, boring, and turning, as well as the development and implementation of advanced materials. Based on the 4th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2021), held on June 8-11, 2021, in Lviv, Ukraine, this first volume of a 2-volume set provides academics and professionals with extensive information on trends, technologies, challenges and practice-oriented experience in the above-mentioned areas.

Write automated unit tests for the ABAP language. This book teaches programmers using simple examples and metaphors and explains the underlying concepts of writing effective automated unit tests. Many, if not most, ABAP programmers learned their programming and testing skills before the ABAP development environment provided an automated unit testing facility. Automated Unit Testing with ABAP: A Practical Approach offers hope and salvation to ABAP programmers who continue to toil with antiquated manual unit testing processes, taking them by the hand and lifting them out of that dungeon of despair with a modern and proven alternative. It begins by explaining how the xUnit family of automated testing frameworks provides a quick and effective means of insuring high-quality software. It then focuses on the ABAP Unit Testing Facility, the xUnit framework applicable specifically to the ABAP language, showing how it can be used to bring ABAP applications under automated

testing control, from old legacy applications to those newly written. Whereas xUnit testing has been widely accepted with developers writing in many other programming languages, it is an unfortunate fact in the ABAP community that many programmers still are unfamiliar with xUnit concepts and do not know how to begin implementing automated unit testing into their development process. This book demonstrates how to refactor programs so they become designed for testability, showing how to use process encapsulation and test isolation to facilitate automated testing, including a thorough explanation of test-driven development and the use of test doubles. The book:

- Shows how to write automated unit tests for ABAP
- Instills ABAP programmers with the confidence to refactor poorly written code
- Explains how an automated testing harness facilitates rapid software development
- Teaches how to utilize test-driven development (TDD) with ABAP
- Offers advice and tips on the best ways to write automated unit tests

What You Will Learn

- Become familiar with the xUnit approach to testing
- Know the ABAP statements that interfere with running automated unit tests and how to accommodate them
- Understand what it means to isolate code for testing and how this is achieved
- Gain the confidence to refactor poorly written code
- Make ABAP programs designed for testability
- Reap the benefits of spending less time manually unit testing ABAP programs
- Use test-driven development (TDD) with ABAP programming
- Use configurable test doubles in ABAP

Who This Book Is For

ABAP programmers who remain unfamiliar with the automated unit testing facility and those who already use it but want to improve their skill writing and using automated tests. The book addresses the reluctance and trepidation felt by procedural ABAP programmers who need to know some object-oriented concepts to use this facility, expands their horizons, and helps them step through the doorway leading to

a different approach to program design.

Understand ABAP objects—the object-oriented extension of the SAP language ABAP—in the latest release of SAP NetWeaver 7.5, and its newest advancements. This book begins with the programming of objects in general and the basics of the ABAP language that a developer needs to know to get started. The most important topics needed to perform daily support jobs and ensure successful projects are covered. ABAP is a vast community with developers working in a variety of functional areas. You will be able to apply the concepts in this book to your area. SAP ABAP Objects is goal directed, rather than a collection of theoretical topics. It doesn't just touch on the surface of ABAP objects, but goes in depth from building the basic foundation (e.g., classes and objects created locally and globally) to the intermediary areas (e.g., ALV programming, method chaining, polymorphism, simple and nested interfaces), and then finally into the advanced topics (e.g., shared memory, persistent objects). You will know how to use best practices to make better programs via ABAP objects. What You'll Learn Know the latest advancements in ABAP objects with the new SAP Netweaver system Understand object-oriented ABAP classes and their components Use object creation and instance-methods calls Be familiar with the functions of the global class builder Be exposed to advanced topics Incorporate best practices for making object-oriented ABAP programs Who This Book Is For ABAP developers, ABAP programming analysts, and junior ABAP developers. Included are: ABAP developers for all modules of SAP, both new learners and developers with some experience or little programming experience in general; students studying ABAP at the college/university level; senior non-ABAP programmers with considerable experience who are willing to switch to SAP/ABAP; and any functional consultants who want or have

recently switched to ABAP technical.

This volume provides a foundation in digital accounting by covering such fundamental topics as accounting software, XBRL (eXtensible Business Reporting Language), and EDI. The effects of the Internet and ERP on accounting are classified and presented for each accounting cycle, along with a comprehensive discussion of online controls.

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