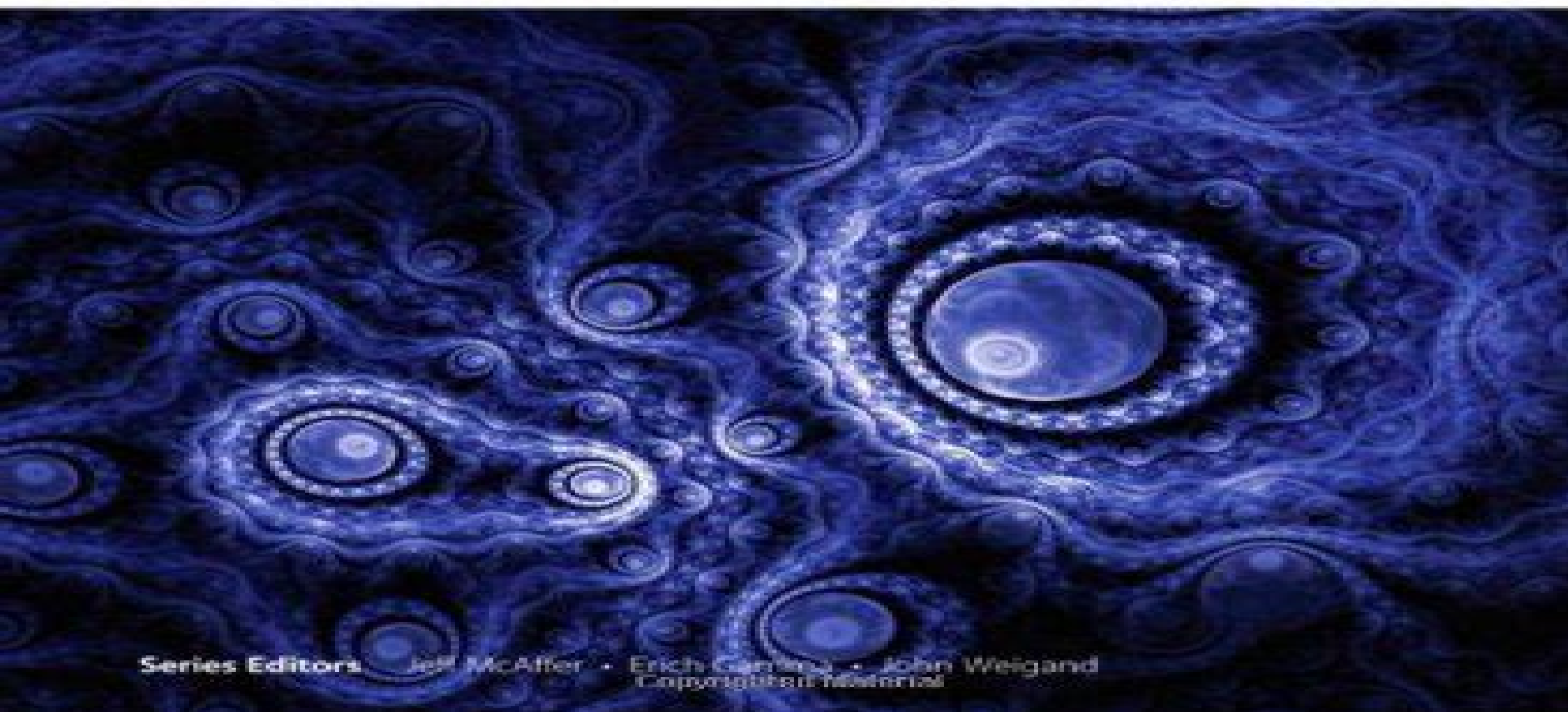




# OSGi and Equinox

## Creating Highly Modular Java™ Systems

Jeff McAffer • Paul VanderLei • Simon Archer



Series Editors: Jeff McAffer • Erich Gamma • John Welgand  
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# Osgi And Equinox Creating Highly Modular Java Systems

**Jeff McAffer, Jeff, Paul VanderLei, Simon  
Archer**



## **Osgi And Equinox Creating Highly Modular Java Systems:**

**OSGi and Equinox** McAffer,2010      **OSGi and Equinox** Jeff McAffer,Paul VanderLei,Simon Archer,2010 A Hands On Guide to Equinox and the OSGi Framework In OSGi and Equinox Creating Highly Modular Java Systems three leading experts show developers for the first time exactly how to make the most of these breakthrough technologies for building highly modular dynamic systems You ll quickly get started with Eclipse bundle tooling create your first OSGi based system and move rapidly to sophisticated production development Next you ll master best practices and techniques for creating systems with exceptional modularity and maintainability You ll learn all about OSGi s Declarative Services and how to use them to solve a wide variety of real world problems Finally you ll see everything that you ve learned implemented in a complete case study project that takes you from early prototype through application delivery For every Eclipse developer regardless of previous experience this book Combines a complete hands on tutorial online sample code at every step and deep technical dives for working developers Covers the OSGi programming model component development OSGi services Eclipse bundle tooling server side Equinox and much more Offers knowledge guidance and best practices for overcoming the complexities of building modular systems Addresses practical issues ranging from integrating third party code libraries to server side programming Includes a comprehensive case study that goes beyond prototyping to deliver a fully refined and refactored production system Whatever your application industry or problem domain if you want to build state of the art software systems with OSGi and Equinox you will find this book to be an essential resource      **Equinox and Osgi** Jeff McAffer,Jeff,Paul VanderLei,Simon Archer,2009-03-27      **OSGi and Equinox** Jeff McAffer,Paul VanderLei,Simon Archer,2010-02-15 A Hands On Guide to Equinox and the OSGi Framework In OSGi and Equinox Creating Highly Modular Java™ Systems three leading experts show developers for the first time exactly how to make the most of these breakthrough technologies for building highly modular dynamic systems You ll quickly get started with Eclipse bundle tooling create your first OSGi based system and move rapidly to sophisticated production development Next you ll master best practices and techniques for creating systems with exceptional modularity and maintainability You ll learn all about OSGi s Declarative Services and how to use them to solve a wide variety of real world problems Finally you ll see everything that you ve learned implemented in a complete case study project that takes you from early prototype through application delivery For every Eclipse developer regardless of previous experience this book Combines a complete hands on tutorial online sample code at every step and deep technical dives for working developers Covers the OSGi programming model component development OSGi services Eclipse bundle tooling server side Equinox and much more Offers knowledge guidance and best practices for overcoming the complexities of building modular systems Addresses practical issues ranging from integrating third party code libraries to server side programming Includes a comprehensive case study that goes beyond prototyping to deliver a fully refined and refactored production system Whatever your application industry or problem domain if you want to build

state of the art software systems with OSGi and Equinox you will find this book to be an essential resource      **Eclipse Rich Client Platform** Jeff McAffer, Jean-Michel Lemieux, Chris Aniszczyk, 2010-05-12 The Definitive Guide to Eclipse Rich Client Development In Eclipse Rich Client Platform Second Edition three Eclipse Rich Client Platform RCP project leaders show how to use Eclipse 3.5 Galileo to rapidly deliver cross platform applications with rich native feel GUIs The authors fully reveal the power of Eclipse as a desktop application development platform introduce important new improvements in Eclipse 3.5 and walk through developing a full featured branded RCP application for Windows Linux Mac and other platforms including handheld devices and kiosks Drawing on their extensive experience the authors cover building refining and refactoring prototypes customizing user interfaces adding help and software management features and building branding testing and shipping finished software They demonstrate current best practices for developing modular and dynamically extensible systems using third party code libraries packaging applications for diverse environments and much more For Java programmers at all levels of experience this book Introduces important new RCP features such as p2 Commands and Databinding Thoroughly covers key RCP related technologies such as Equinox SWT JFace and OSGi Shows how to effectively brand and customize RCP application look and feel Walks through user interface testing for RCP applications with SWTBot Illuminates key similarities and differences between RCP and conventional plug in development Hands on pragmatic and comprehensive this book offers all the real world nontrivial code examples working developers need as well as deep dives into key technical areas that are essential to your success      **Mobile and Ubiquitous Systems** Patrick S  nac, Max

Ott, Aruna Seneviratne, 2012-04-23 This book constitutes the thoroughly refereed post conference proceedings of the 7th International ICST Conference on Mobile and Ubiquitous Systems MobiQuitous 2010 held in Sydney Australia in December 2010 The 24 revised full papers presented were carefully reviewed and selected from 105 submissions They cover a wide range of topics ranging from papers architectures to toolkits and mechanisms for privacy energy efficiency and content awareness In addition there are 11 work in progress papers and a selection of the best poster and workshop papers

*Software for People* Alexander Maedche, Achim Botzenhardt, Ludwig Neer, 2012-09-15 This book provides key insights into current trends of software product management software development and user centered design of software Includes cross industry best practice cases from well known companies      **Computer Vision Systems** James L. Crowley, Bruce

Draper, Monique Thonnat, 2011-09-09 This book constitutes the refereed proceedings of the 8th International Conference on Computer Vision Systems ICVS 2011 held in Sophia Antipolis France in September 2009 The 22 revised papers presented were carefully reviewed and selected from 58 submissions The papers are organized in topical sections on vision systems control of perception performance evaluation activity recognition and knowledge directed vision      Reasoning in

Event-Based Distributed Systems Sven Helmer, Alexandra Poulouvasilis, Fatos Xhafa, 2011-03-29 With the rapid expansion of the Internet over the last 20 years event based distributed systems are playing an increasingly important role in a broad

range of application domains including enterprise management environmental monitoring information dissemination finance pervasive systems autonomic computing collaborative working and learning and geo spatial systems Many different architectures languages and technologies are being used for implementing event based distributed systems and much of the development has been undertaken independently by different communities However a common factor is an ever increasing complexity Users and developers expect that such systems are able not only to handle large volumes of simple events but also to detect complex patterns of events that may be spatially distributed and may span significant periods of time Intelligent and logic based approaches provide sound foundations for addressing many of the research challenges faced and this book covers a broad range of recent advances contributed by leading experts in the field It presents a comprehensive view of reasoning in event based distributed systems bringing together reviews of the state of the art new research contributions and an extensive set of references It will serve as a valuable resource for students faculty and researchers as well as industry practitioners responsible for new systems development

Evolutionary Multi-Agent Systems Aleksander Byrski, Marek Kisiel-Dorohinicki, 2016-12-21 This book addresses agent based computing concentrating in particular on evolutionary multi agent systems EMAS which have been developed since 1996 at the AGH University of Science and Technology in Cracow Poland It provides the relevant background information on and a detailed description of this computing paradigm along with key experimental results Readers will benefit from the insightful discussion which primarily concerns the efficient implementation of computing frameworks for developing EMAS and similar computing systems as well as a detailed formal model Theoretical deliberations demonstrating that computing with EMAS always helps to find the optimal solution are also included rounding out the coverage

*An Introduction To Component-based Software Development* Kung-kiu Lau, Simone Di Cola, 2017-06-29 The book provides a comprehensive coverage of the widely accepted desiderata of component based software development as well as the foundations that these desiderata necessitate Its unique focus is on component models the cornerstone of component based software development In addition it presents and analyses existing approaches according to these desiderata This compendium is an indispensable textbook for an advance undergraduate or postgraduate course unit Researchers will also find this volume an essential reference material

Digital Transformation and Global Society Andrei V. Chugunov, Radomir Bolgov, Yuri Kabanov, George Kampis, Maria Wimmer, 2016-11-24 This book constitutes the refereed proceedings of the First International Conference on Digital Transformation and Global Society DTGS 2016 held in St Petersburg Russia in June 2016 The 43 revised full papers and 15 revised short papers presented together with 3 poster papers and an invited paper were carefully reviewed and selected from 157 submissions The papers are organized in topical sections on eSociety New Social Media Studies eSociety eGovernment and eParticipation Perspectives on ICTs in Public Administration and Democracy eKnowledge ICTs in Learning and Education Management eCity ICTs for Better Urban Rural Planning and Living eHealth ICTs in Healthcare eScience Big Data

Complex Calculations      **Software Architecture** Carlos E. Cuesta, David Garlan, Jennifer Pérez, 2018-09-19 This book constitutes the refereed proceedings of the 12th European Conference on Software Architecture ECSA 2018 held in Madrid Spain in September 2018 The 17 full papers presented together with 7 short papers were carefully reviewed and selected from 96 submissions They are organized in topical sections as follows Self Adaptive Architectures IoT Architectures Embedded and Cyber Physical Systems Microservices Architectures Service Oriented Architectures Architectural Design Decisions Software Architecture in Practice      **Performance Problem Diagnostics by Systematic Experimentation** Wert, Alexander, 2018-03-29 In this book we introduce an automatic experiment based approach for performance problem diagnostics in enterprise software systems The proposed approach systematically searches for root causes of detected performance problems by executing series of systematic performance tests The presented approach is evaluated by various case studies showing that the presented approach is applicable to a wide range of contexts      **12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering**, 2015-07-14 25th European Symposium on Computer Aided Process Engineering contains the papers presented at the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Joint Event held in Copenhagen Denmark 31 May 4 June 2015 The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing based methods in process engineering This conference highlights the contributions of the PSE CAPE community towards the sustainability of modern society Contributors from academia and industry establish the core products of PSE CAPE define the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE CAPE versus the consolidation of the core topics of PSE CAPE Highlights how the Process Systems Engineering Computer Aided Process Engineering community contributes to the sustainability of modern society Presents findings and discussions from both the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Events Establishes the core products of Process Systems Engineering Computer Aided Process Engineering Defines the future challenges of the Process Systems Engineering Computer Aided Process Engineering community      **Programming Android** Zigurd Mednieks, Laird Dornin, G. Blake Meike, Masumi Nakamura, 2012-09-28 Get thoroughly up to speed on Android programming and learn how to create up to date user experiences for both handsets and tablets With this book s extensively revised second edition you ll focus on Android tools and programming essentials including best practices for using Android 4 APIs If you re experienced with Java or Objective C you ll gain the knowledge necessary for building well engineered applications Programming Android is organized into four parts Part One helps programmers with some Java or iOS experience get off to a fast start with the Android SDK and Android programming basics Part Two delves into the Android framework focusing on user interface and

graphics class hierarchies concurrency and databases It s a solid foundation for understanding of how the most important parts of an Android application work Part Three features code skeletons and patterns for accelerating the development of apps that use web data and Android 4 user interface conventions and APIs Part Four delivers practical coverage of Android s multimedia search location sensor and account APIs plus the Native Development Kit enabling developers to add advanced capabilities This updated edition of Programming Android focuses on the knowledge and developer priorities that are essential for successful Android development projects

**Building Modular Cloud Apps with OSGi** Paul Bakker,Bert Ertman,2013-09-09 If you re an experienced Java developer in the enterprise this practical hands on book shows you how to use OSGi to design develop and deploy modular cloud applications You ll quickly learn how to use OSGi through concise code examples and a set of best practices derived from the authors experiences with real world projects Through the course of this book you ll learn to develop modern web applications with tools and techniques such as RESTful Web Services NoSQL provisioning elasticity Auto Scaling hotfixes and automatic failover Code samples are available from GitHub Work with dynamic OSGi services to create modular applications Explore the basics of OSGi bundles and modular application design Learn advanced topics including semantic versioning integration testing and configuring components Understand OSGi pitfalls anti patterns and features you should avoid Create a modular architecture for cloud based web applications Discover how maintainability extensibility scalability and testability are affected by modular design Get a look at various options for creating web applications with a modular approach Interact with persistent storage services including relational databases and NoSQL Examine alternatives for deploying modular applications to the cloud

*Pervasive Linux* Christoph Czernohous,2011-10-08 Thema dieser fundierten Einf hrung ist der Einsatz von Linux in eingebetteten Systemen Dabei handelt es sich um rechnergest tzte Systeme die in ihre Umgebung integriert sind und dort Steuerungsfunktionen bernehmen oder zus tzliche Funktionen f r den Benutzer bereitstellen Einfache Beispiele sind PDAs Personal Digital Assistants Handhelds oder auch Mobiltelefone Der Autor erl utert zun chst die Spezifika eingebetteter Systeme und erkl rt dann welche Besonderheiten beim Einsatz von Linux als zugrundeliegendem Betriebssystem zu beachten sind Anschlie end werden die zentralen Komponenten eines Linux Systems vorgestellt und die Programmierung unter Linux mithilfe g ngiger Werkzeuge im Detail dargelegt Die Code Beispiele orientieren sich dabei am Einsatz von Linux Systemen auf PDAs und mobilen Endger ten Dieses Buch richtet sich an Software Entwickler im Oper Source Umfeld Vorausgesetzt werden grundlegende Kenntnisse in der Programmiersprache C sowie in der Administration von Linux Systemen

**Innovative Applications of Big Data in the Railway Industry** Kohli, Shruti,Kumar, A.V. Senthil,Easton, John M.,Roberts, Clive,2017-11-30 Use of big data has proven to be beneficial within many different industries especially in the field of engineering however infiltration of this type of technology into more traditional heavy industries such as the railways has been limited Innovative Applications of Big Data in the Railway Industry is a pivotal reference source for the latest research

findings on the utilization of data sets in the railway industry Featuring extensive coverage on relevant areas such as driver support systems railway safety management and obstacle detection this publication is an ideal resource for transportation planners engineers policymakers and graduate level engineering students seeking current research on a specific application of big data and its effects on transportation

*Secure and Trustworthy Service Composition* Achim Brucker, Fabiano Dalpiaz, Paolo Giorgini, Per Håkon Meland, Erkuden Rios, 2014-11-26

The Future Internet envisions a move toward widespread use of services as a way of networked interaction However while the technologies for developing and deploying services are well established methods for ensuring trust and security are fewer and less mature Lack of trust and confidence in composed services and in their constituent parts is reckoned to be one of the significant factors limiting widespread uptake of service oriented computing This state of the art survey illustrates the results of the Aniketos Secure and Trustworthy Composite Services project funded under the EU 7th Research Framework Programme The papers included in the book describe the solutions developed during the 4 year project to establish and maintain trustworthiness and secure behavior in a constantly changing service environment They provide service developers and providers with a secure service development framework that includes methods tools and security services supporting the design time creation and run time composition of secure dynamic services where both the services and the threats are evolving The 16 chapters are organized in the following thematic sections state of the art of secure and trustworthy composite services the Aniketos platform design time support framework run time support framework and case studies and evaluation



The Top Books of the Year Osgi And Equinox Creating Highly Modular Java Systems The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Osgi And Equinox Creating Highly Modular Java Systems : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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