mobile apps without any native-language hassle for each platform. It offers a library of mobile-optimized HTML, CSS, and JS components for building highly interactive mobile apps. This book will help you to develop a complete, professional-quality mobile app for both iOS and Android platforms. You can start the journey to create mobile apps that will not only look but also feel professional and native to both iOS and Android platforms. You will also implement various native plugins and integrate them with Ionic and Ionic Cloud services to use them optimally in your application. By the end of this book, you will not only have crafted a professional, hybrid mobile application, but you will also have ensured that your app is secure and performance driven. Style and approach A step-by-step guide (covering all its features and components) to build a complete mobile application using Ionic. Each chapter will cover different features of Ionic.

IoT Projects with Bluetooth Low Energy Use the power of BLE to create exciting IoT applications About This Book Build hands-on IoT projects using Bluetooth Low Energy and learn about Bluetooth S and its features. Build a health tracking system, and indoor navigation and weather monitoring projects using smart devices. Build on a theoretical foundation and create a practice-based understanding of Bluetooth Low Energy. Who This Book Is For If you're an application developer, a hardware enthusiast, or just curious about the Internet of Things and how to convert it into hands-on projects, then this book is for you. Having some knowledge of writing mobile applications will be advantageous. What You Will Learn Learn about the Bluetooth Low Energy (BLE) protocol. BLE defines a specific set of devices that want to work together in an IoT project. Learn about various aspects of BLE, such as BLE sensor and BLE tracking device. BLE enables you to connect to BLE devices and IoT projects. The book includes practical examples of BLE and IoT using BLE beacon and BLE beacon projects. BLE devices are used in a wide range of IoT projects, from healthcare to smart home applications. By the end of this book, you will have a good understanding of BLE and its potential in IoT projects. BLE uses a simple and secure protocol that makes it easy to integrate with other IoT devices. BLE is used in various applications, such as health tracking, home automation, and smart homes. BLE uses a simple and secure protocol that makes it easy to integrate with other IoT devices.

Building Applications with iBeacon D2D-based proximity service is a very hot topic on both the academic and industrial fields, as well as in the standardization. The authors present the architecture, fundamental issues, and applications in a D2D networking environment from both an academic and industrial perspective. The book discusses the following key topics:

- Bluetooth Low Energy (BLE) technology and its applications in various industries
- iBeacon, Eddystone, Bluetooth 4.0, and AltBeacon
- The Beacosystem framework for analyzing the proximity ecosystem
- The new phenomenon of beacon networks, which will be hugely significant in driving strategic decisions and creating wealth
- Other technologies in the proximity ecosystem catalyzed by and implemented with BLE

The book is intended for technical professionals, decision-makers, and researchers in the field of wireless networking. It provides a comprehensive overview of the latest developments in the field and is a valuable resource for anyone interested in the application of BLE technology.
Building Applications With Ibeacon Proximity and Location Services With Bluetooth Low Energy

start

This updated edition covers everything you’ll ever need to know about wireless technology. Designed with the system administrator or serious home user in mind, it’s a no-nonsense guide for setting up 802.11 on Windows and Linux. Among the topics covered are discussions of the essentials wireless card configuration security issues unique to wireless networks With wireless technology, the advantages to its users are indeed plentiful. Companies no longer have to deal with the hassle and expense of wiring buildings, and households with several computers can avoid fights over who’s online. And now, with 802.11 Wireless Networks: The Definitive Guide, you can integrate wireless technology into your current infrastructure with the utmost confidence.

iOS Application Security In the age of automation the ability to navigate persons and devices in indoor environments has become increasingly important for a rising number of applications. However, we are still far away from achieving cheap provision of global indoor positioning with an accuracy of 1 meter or better. With the emergence of global satellite positioning systems, the performance of outdoor positioning has become excellent, but many mass market applications require seamless indoor positioning in all environments. Therefore indoor positioning devices in all research and development areas. This book categorizes all sighted indoor positioning approaches into 13 distinct technologies and describes the measuring principles of each. Individual approaches are characterized and key performance parameters are quantified.

Indoor Positioning Technologies Geographical and Fingerprinting Data for Positioning and Navigation Systems: Challenges, Experiences and Technology Roadmap explores the state-of-the-art software tools and innovative strategies to provide better understanding of positioning and navigation in indoor environments using fingerprinting techniques. The book provides the different problems and challenges of indoor positioning and navigation services and shows how fingerprinting can be used to address such necessities. This advanced publication provides the useful references educational institutions, industry, academic researchers, professionals, developers and practitioners need to apply, evaluate and reproduce this book’s solutions for positioning and navigation in indoor environments Covers solutions for using the magnetic field to position and navigate in indoor environments Contains solutions of a modular positioning system as a solution for seamless positioning Provides geographical and fingerprint data in order to provide indoor/outdoor location and navigation systems

The Definitive Guide to JSF in Java EE 8 The premier guide to digital marketing that works, and a solid framework for success The Art of Digital Marketing is the comprehensive guide to cracking the digital marketing 'code,' and reaching, engaging, and serving the empowered consumer. Based on the industry's leading certification from the Digital Marketing Institute (DMI), this book presents an innovative methodology for successful digital marketing: start with the customer and work backward. The book introduces new thought leaders, such as the author and CEO of the consumer's journey. Inside, you'll discover how to drive actionable insights from data to answer customer journey questions. And you'll master a new set of tools to drive accountability and results. From data to action, this book is your guide to the most profitable digital marketing you've ever seen.

Indoor Wayfinding and Navigation Learn and master the new features in the Java EE 2.3 MVC web framework in this definitive guide written by two of the J2EE Server Faces (JSF) specification leaders. The authors take you through real-world examples that demonstrate how these new features are used with other APIs in Java EE 8. You’ll see the new and exciting ways JSF applications can use to communicate between a client and a server, as well as using WebSockets, including mean methods directly from Java, executing client-side JavaScript when Ajax calls complete, and more Along the way you’ll broaden your knowledge of JSF components and web APIs best practices, and learn a great deal about the internals of JSF and the design decisions that have been made when building the JSF API. For example, you’ll see what artefacts are now CDI injectable, how CDI changed JSF internally, and what some of the caveats are when working with the CDI versions of a JSF artefact. Furthermore, you’ll learn new compelling ways of integrating The New Face of the Faceless, such as the new web components and the new applications. Integrate JSF and CDI Use the new Component Search Expression framework, which enables you to more easily locate components from your template Extend the Component Search Expression framework with your own search operators Work with the different ways of mapping requests to JSF, as well as your application use extensionless URLs, and programmatically inspect which resources are present in your application Master the best practices for web application development with JSF 2.3 This book is For Existing developers with knowledge of JSF is required, but the book does speak towards the more experienced developer. Concepts such as dependency injection and MVC are assumed to be known, as is a general knowledge about HTML, HTTP and other web standards.

Beacon Technologies The authors provide us with the first in depth look at the origins and subsequent evolution of this fascinating field of study. Beginning with a discussion of the Library Anxiety Scale, the most widely used measure of library anxiety among college and university students, it investigates a number of theoretical models, provides an extensive framework for conducting research at the institutional level, and offers both proven and proposed strategies for prevention and intervention. If there are no more nonsensies than users in your community—or if you suspect your users could benefit more from the experience—let Library Anxiety ease your troubled hearts and smooth the way ahead.

Fundamentals of Mechanical Vibrations Proximity technology, in particular Bluetooth beacons, are a major source of business opportunity and Ibeacon and Proximity Technologies: The Solutions Architect’s Guide to the Beaconcosystem provides you with the tools you need to know about a technology that will change the way we do business. Learn the key standards—Ibeacon, Ubeacon, Bluetooth 4.0, Altbeacon—and how they work with other proximity technologies. Then build your understanding of the protocols. The readers will learn how to apply the best possible architecture to implement, store and handle the data generated by beacons. Solutions architects have many titles: Venture Capitalist, Founder, CEO, Strategist, Product Manager, CTO, Business Development, or Developer. Steve Heimann is a writer, public speaker, and consultant working in the beacon ecosystem. He trains and advises retailers, venue owners, investors, and as well as makers of beacon software and hardware. Previously he was the Senior Director for Strategy and Solutions Management at Qualcomm’s Retail Solutions Division, helping to incubate Gimbal, one of the leading Bluetooth beacon companies. He is also the CEO of Cause Based Solutions, a non-profit supporters to donate to for their charity branded debit cards, and developer of The Good Traveler program. On LinkedIn.com/in/stevehiman/beacon What you’ll learn Digital Physical Conversion - Learn the implications of this disruptive technology and the new applications it makes possible. Standards - Learn the key standards that solutions developers use to implement this technology: Ibeacon, Ubeacon, Bluetooth 4.0, Altbeacon. And the requirements: marketing, customer experience, data collection, and privacy. Solutions architect: A successful solution architect needs to have a basic understanding of how the Beaconcosystem works. This book is for Existing developers with knowledge of JSF is required, but the book does speak towards the more experienced developer. Concepts such as dependency injection and MVC are assumed to be known, as is a general knowledge about HTML, HTTP and other web standards.

Digital marketing operates within its own paradigm, and The Art of Digital Marketing opens the door for your next campaign. It explains how to use digital marketing to create more effective campaigns. Get inside the customer’s head with deep consumer research Constantly improve your campaigns based on feedback and interactions Integrate digital activities across channels, including traditional marketing Beacosystems are a three-step process called the 3i Principles: Initiate, Iterate, and Integrate. This simple idea translates into higher engagement, real customer interaction, and multichannel campaigns that extend even into traditional marketing channels. The evolution of digital marketing isn’t really about the brands: it’s about consumers exercising more control over their choices. This book demonstrates how using this single realization as a starting point helps you build and implement more effective campaigns. Get inside the customer's head with deep consumer research. ""
Zigbee, and IEEE 802.15.4 Mesh will be introduced. The book will present BLE from an engineering perspective, from which the protocol stack, architecture, and layers are discussed. You will learn to implement customized projects for Personal Area Networks (PANs), Zigbee-based home automation, BLE beacon, and navigation using various code samples and APIs on Android, iOS, and the Web. Finally, the book will conclude with a glimpse into future technologies destined to be prominent in years to come. Style and approach The book is a practical tutorial that will help you understand the background and technicalities of BLE and offers a friendly environment to build and create robust BLE projects. This hands-on approach will give you a clear vision of Bluetooth Low Energy and how it can be used in IoT.

Take Control of Shortcuts
Bluetooth Low Energy Gain an in-depth view of optimizing the performance of BizTalk Server. This book provides best practices and techniques for improving development of high mission-critical solutions. You’ll see how the BizTalk Server engine works and how to proactively detect and remedy potential bottlenecks before they occur. The book starts with an overview of the BizTalk Server internal mechanisms that will help you understand the optimizations detailed throughout the book. You’ll then see how the mechanisms can be applied to a BizTalk Server environment to improve low and high latency throughput scenarios. A section on testing BizTalk server solutions will guide you through the most frequently adopted techniques used in BizTalk Server testing as performance tuning. The book will cover over the planning, development, and testing of your solution along with setup and test, and you’ll also learn special instrumentation techniques using Event Traces for windows and business activity monitoring (BAM). While the book is focused on the latest version of BizTalk Server, most of the topics discussed will also work with BizTalk Server 2013 R2. What You’ll Learn Review BizTalk Server internals and how the message engine works Understand BizTalk Server architecture Gather and analyze BizTalk Server performance data Develop BizTalk Server performance solutions Use advanced troubleshooting tools to help diagnose your problems and get their BizTalk server in top shape

BizTalk Server 2016 Xamarin Mobile Application Development is a hands-on Xamarin.Forms primer and a cross-platform reference for building native Android, iOS, and Windows Phone apps using C# and .NET. This book explains how to use Xamarin.Forms, Xamarin.Android, and Xamarin.iOS to build business apps for your customers and consumer apps for Google Play and the iTunes App Store. Learn how to leverage Xamarin.Forms for cross-platform development using the most common UI pages, layouts, views, controls, and design patterns. Combine these with platform-specific UI to craft a visually stunning and highly interactive mobile user experience. Use Xamarin.Forms to data bind your UI to both data models and to view models for a Model-View-ViewModel (MVVM) implementation. Use this book to answer the important question: Is Xamarin.Forms right for my project? Platform-specific UI is a key concept in cross-platform development, and Xamarin.Android and Xamarin.iOS are the foundation of the Xamarin platform. Xamarin Mobile Application Development will cover not only an Android app using Xamarin.Android and an iOS app using Xamarin.iOS while sharing a core code library, but is the database-of-choice for many Xamarin developers. This book will explain local data access techniques using SQLite.NET and ADO.NET. Build a mobile data access layer (DAL) using SQLite and weigh your options for web services and enterprise cloud data solutions. This book will show how your Xamarin Forms into a professional-grade application architecture. Explore solution-building techniques from starter-to-enterprise to help you decouple your functional layers, manage your platform-specific code, and share your cross-platform classes for code reuse, testability, and maintainability. Also included are 250+ screenshots on iOS, Android, and Windows Phone and 200+ C# code examples with downloadable C# and XML versions available from Apress.com. This comprehensive recipe and reference book addresses one of the most important and vexing problems in the software industry today: How do we effectively design and develop cross-platform mobile applications?

Building Applications with iBeacon Outdoor wayfinding and navigation systems and services have become indispensable in people's mobility in unfamiliar environments. Advances in key technologies (e.g., positioning and mobile devices), has spurred interest in research and development of indoor wayfinding and navigation systems and services in recent years. Indoor Wayfinding and Navigation provides both breadth and depth of knowledge in designing and building indoor wayfinding and navigation systems and services. It covers the types of sensors both feasible and practical for localization of users inside buildings. The book discusses current approaches, techniques, and technologies for addressing issues in indoor wayfinding and navigation systems and services. It includes coverage of the cognitive, positioning, mapping, and application perspectives, an unusual but useful combination of information. This mix of different perspectives helps you better understand the issues in indoor wayfinding and navigation systems and services and how they can be used efficiently and effectively in challenging applications. Written by well-known specialists in the field, the book addresses all aspects of indoor wayfinding and navigation. It includes the latest research developments on the topic, succinctly covers the fundamentals, and details the issues and challenges in building new systems and services. With this information, you can design indoor wayfinding and navigation systems and services for a variety of uses and uses.

Library Anxiety Learn to use NATS and messaging as a solution for communication between services. The NATS project has been around since 2010, but it has become more popular in recent years due to how well it fits into the paradigm of cloud native applications and microservices architectures. It's fast becoming a very attractive option thanks to its very good security, and a very generic API that can be used across a series of services without much adaptation. One of the key things that make NATS so powerful is its architecture as a distributed network. Once you've installed and configured your NATS client and you're familiar with the basic API, you'll see how the NATS client can communicate with the NATS server using the configuration file. Next you'll work with real-world projects and see how to develop-a-production-ready cloud native application using NATS as the control plane over which clients communicate. Finally you'll learn advanced usage of the NATS clients, such as implementing heartbeats based failure detectors, tracing or collecting multiple responses from a single request. Perhaps you are familiar with REST-style APIs, and want to make the transition into a messaging-based API? This book is designed to help you with that transition. While this book does not replace a fundamentals book on REST APIs, it will show you how to set up a protocol works under the hood to more advanced communication styles which are possible with the basic building blocks provided by the client. By setting up the server, you can configure NATS servers, as well as how to troubleshoot common failure scenarios. What This Book Is For Anyone looking for a solution for some of the problems which come along with microservices and cloud native application development, such as service discovery, low latency requests, load balancing, tracing and monitoring for example. If you are a heavy user of NATS, you'll find helpful tips and gotchas starting on some of the same issues you may have been facing.

Practical NATS Improve your iPad and iPhone workflows with automation! Version 1.1, updated 09/30/2020 Apple’s Shortcuts app brings extensive automation capabilities to your iPhone or iPad, using a drag-and-drop, fill-in-the-blanks interface much like Automator on the Mac. It lets you perform sequences of tasks, including ones that span various apps, with just a tap or a voice command—or even automatically when certain conditions are met. Shortcuts can save you time and effort, help you accomplish previously complicated tasks, and let you customize your device to better meet your needs. And with iOS 14/iPadOS 14, Shortcuts has become even more powerful than before. But for all its utility, Shortcuts is not self- explanatory, so it can be challenging to figure out its quirks and create effective, time-saving automations. That's where Take Control of Shortcuts comes in. Written by automation expert Rosemary Orchard, this book opens the world of iOS/iPadOS to the vast range of tools it provides, offering both a primer for those who have never used Shortcuts, and a complete guide for those who have strong Basic and NET Framework knowledge and want to get their Shortcuts in the next level.

Download Ebook Building Applications With Ibeacon Proximity And Location Services With Bluetooth Low Energy
How to be Strategic This book constitutes the refereed proceedings of the 31st International Symposium on Computer and Information Sciences, ISCIS 2016, held in Krakow, Poland, in October 2016. The 29 revised full papers presented were carefully reviewed and selected from 65 submissions. The papers are organized in topical sections on smart algorithms; data classification and processing; stochastic modelling; performance evaluation; queueing systems; wireless networks and security; image processing and computer vision.

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