THE ADDISON-WESLEY MICROSOFT TECHNOLOGY SERIES



THIRD EDITION

# Framework Design

GUIDELINES

KRZYSZTOF CWALINA JEREMY BARTON BRAD ABRAMS



**M Woodhall** 

Framework Design Guidelines Krzysztof Cwalina, Jeremy Barton, Brad Abrams, 2020-06-01 Master Today's Best Practices for Building Reusable NET Frameworks Libraries and Components NET Core contains advances important to cloud application developers performance resource utilization container support and others This third edition of Framework Design Guidelines adds guidelines related to changes that the NET team adopted during transition from the world of client server application to the world of the Cloud From the Foreword by Scott Guthrie Framework Design Guidelines has long been the definitive guide to best practices for developing components and component libraries in Microsoft NET Now this third edition has been fully revised to reflect game changing API design innovations introduced by Microsoft through eight recent updates to C eleven updates to NET Framework and the emergence and evolution of NET Core Three leading NET architects share the same guidance Microsoft teams are using to evolve NET so you can design well performing components that feel like natural extensions to the platform Building on the book s proven explanatory style the authors and expert annotators offer insider guidance on new NET and C concepts including major advances in asynchronous programming and lightweight memory access Throughout they clarify and refresh existing content helping you take full advantage of best practices based on C 8 NET Framework 4 8 and NET Core Discover which practices should always generally rarely or never be used including practices that are no longer recommended Learn the general philosophy and fundamental principles of modern framework design Explore common framework design patterns with up to date C examples Apply best practices for naming types extensibility and exceptions Learn how to design libraries that scale in the cloud Master new async programming techniques utilizing Task and ValueTask Make the most of the Memory and Span types for lightweight memory access This quide is an indispensable resource for everyone who builds reusable NET based frameworks libraries or components at any scale large system frameworks medium size reusable layers of large distributed systems extensions to system frameworks or even small shared components Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Framework Design Guidelines Krzysztof Cwalina, Brad Abrams, 2006 DVD Framework Design Guidelines contains video presentations of topics sample API specification other resources KRZYSZTOF. CWALINA, Brad Abrams, 2018-06-09 Framework Design Guidelines Second Edition teaches developers the best practices for designing reusable libraries for the Microsoft NET Framework Expanded and updated for NET 3 5 this new edition focuses on the design issues that directly affect the programmability of a class library specifically its publicly accessible APIs This book can improve the work of any NET developer producing code that other developers will use It includes copious annotations to the guidelines by thirty five prominent architects and practitioners of the NET Framework providing a lively discussion of the reasons for the guidelines as well as examples of when to break those guidelines Microsoft architects Krzysztof Cwalina and Brad Abrams teach framework design from the top down From their significant combined

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