

# API Specification 16A, 4th Edition

## APPROVED INTERPRETATIONS

Interpretations issued for **THIS** Edition as of: June 2017 (supersedes all previous issue dates)

Publication: API Specification 16A, 4<sup>th</sup> Edition, *Specification for Drill-through Equipment*

Publication Date: April 2017  
Errata: None  
Addenda: None

**NOTE 1:** Interpretations are reviewed and approved by API and become part of the published document. Interpretations apply only to the edition cited above. Interpretations may be used as a basis for change to the subsequent editions of the document.

**NOTE 2:** Newly added interpretations are identified in red.

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### Section/Table/Figure: Section 4.7.2.2.1

**Question:** Section 4.7.2.2.1, "NOTE: Test results may be used to qualify other blind rams and other fixed bore pipe rams of different nominal pipe sizes, ..." I interpret this statement as saying that testing a fixed bore pipe ram of a particular pipe size will qualify other fixed bore pipe rams of different nominal pipe sizes as long as the relevant criteria is met. But I don't see any explicit statement that says "Fixed bore pipe rams test qualifies blind rams?"

**Response:** No. Both must be tested. In other words, a pipe ram test does not qualify a blind ram. As indicated in Table 20, blind rams must be tested for sealing characteristics, fatigue and temperature. It is important to note the restrictions following Table 19 (bottom of page 43). For example, the change of any essential variable prohibits using the qualification of a different product. API 16A, Section 4.5.5 lists metallic insert design and mold design as essential variables.

### Section/Table/Figure: Section 5.3.2.2

**Question:** The sentences in question read "The number and location of both part and environmental thermocouples (with controlling and monitoring designations) SHALL be clearly identified. Thermocouples attached to the parts SHALL be used as controlling thermocouples. A minimum of two part thermocouples are required per heat treat batch." There are two clear SHALL statements, but the last statement that "a minimum of two part thermocouples are required" is not a SHALL statement. Can you confirm the requirement for the number of thermocouples required?

**Response:** Yes. Per the API Style Guide, Table 1, equivalent expressions for statements of requirement that may be in a document include (but are not limited to) the use of "is required" or any variation. The extracted wording "A minimum of two-part thermocouples are required per heat treat batch." would clearly meet this criterion and therefore is deemed a requirement.

### Section/Table/Figure: Section 5.3.5.2.3

**Question:** In section 5.3.5.2.3, figure 9, the second to last note ends with "...ER = 1 - 1/4 T". All other fractions in the document are shown WITHOUT the dash between unit and fraction, so it is unclear if this is a fraction or a formula, where the dash indicates subtraction. In 3rd edition, this value was one fourth (0.25). Is the ER equal to one minus one fourth (equal to 0.75), or is it one and one fourth (equal to 1.25)?

**Response:** No. The ER does not equal one minus one fourth 7. Yes. The ER equals one and one fourth T (equal to 1.25 T).

### Section/Table/Figure: Section 5.3.5.2.3

**Question:** In 16A 3rd edition, in section 6.3.5.5, figure 8.b, there is a statement which reads "When all internal and external surfaces during heat treatment are not within 13mm (1/2 in) of the final surfaces, then ER = 2T." Due to the heat treating process, bolt holes and poring (which may be considered internal or external surfaces) are machined AFTER the process, which means the ER requirement becomes 2T. In 3rd edition, there was a further statement in section 6.3.5.2.3 which limited the maximum QTC ER to 5 inches. In 4th edition, the limitation of the ER to 5 inches has been removed (section 5.3.5.2.3), yet the

## Api 657th Edition

**Harihara Subramanian, Pethuru Raj**

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**Android Studio Jellyfish Essentials - Java Edition** Neil Smyth,2024-05-06 This book fully updated for Android Studio Jellyfish 2023 3 1 and the new UI teaches you how to develop Android based applications using the Java programming language This book begins with the basics and outlines how to set up an Android development and testing environment followed by an overview of areas such as tool windows the code editor and the Layout Editor tool An introduction to the architecture of Android is followed by an in depth look at the design of Android applications and user interfaces using the Android Studio environment Chapters also cover the Android Architecture Components including view models lifecycle management Room database access content providers the Database Inspector app navigation live data and data binding More advanced topics such as intents are also covered as are touch screen handling gesture recognition and the recording and playback of audio This book edition also covers printing transitions and foldable device support The concepts of material design are also covered in detail including the use of floating action buttons Snackbars tabbed interfaces card views navigation drawers and collapsing toolbars Other key features of Android Studio and Android are also covered in detail including the Layout Editor the ConstraintLayout and ConstraintSet classes MotionLayout Editor view binding constraint chains barriers and direct reply notifications Chapters also cover advanced features of Android Studio such as App Links Gradle build configuration in app billing and submitting apps to the Google Play Developer Console Assuming you already have some Java programming experience are ready to download Android Studio and the Android SDK have access to a Windows Mac or Linux system and have ideas for some apps to develop you are ready to get started

**The AutoCAD Professional's API Toolkit** Kurt Hampe,1993 This is a book disk set with a strong emphasis on the disks It is a tutorial reference toolkit that teaches how to develop professional quality applications for AutoCAD and it provides the reference material and programming tools and libraries to make doing so efficient and relatively easy With this book you can develop applications for any discipline using the tools and techniques available in the ADS AME DCL ASE SQL and Windows DDE and OLE APIs

**XSLT Cookbook** Sal Mangano,2006 Presents a collection of detailed code recipes that breaks down everyday XSLT problems into manageable chunks This work enables you learn how to transform XML documents into PDF files SVG files and HTML documents

**Handbook of Data on Organic Compounds** ,1989 [Infrared Band Handbook](#) Herman A. Szymanski,1963 Entries are arranged in the order of ascending wave number and subarranged according to decreasing band strength Each page contains data for 20 compounds usually with structural formulas No infrared spectra are given Index for both parts in last volume entries refer to wave numbers not pages Published 1963

**Core Java Volume I--Fundamentals** Cay S. Horstmann,2012-11-27 Fully updated to reflect Java SE 7 language changes Core Java Volume I Fundamentals Ninth Edition is the definitive guide to the Java platform Designed for serious programmers this reliable unbiased no nonsense tutorial illuminates key Java language and library features with thoroughly tested code examples As in previous editions all

code is easy to understand reflects modern best practices and is specifically designed to help jumpstart your projects Volume I quickly brings you up to speed on Java SE 7 core language enhancements including the diamond operator improved resource handling and catching of multiple exceptions All of the code examples have been updated to reflect these enhancements and complete descriptions of new SE 7 features are integrated with insightful explanations of fundamental Java concepts You ll learn all you need to be productive with The Java programming environment Objects classes and inheritance Interfaces and inner classes Reflection and proxies Graphics programming Event handling and the event listener model Swing based user interface components Application and applet deployment Exceptions logging assertions and debugging Generic programming Collections Concurrency and more For detailed coverage of advanced features including the new API for file input output and enhancements to the concurrency utilities look for Core Java Volume II Advanced Features Ninth Edition ISBN 13 978 0 13 708160 8 *Core Java* Cay S. Horstmann,2021-12-17 The 1 Java Guide for Serious Programmers Fully Updated through Java 17 This is the definitive reference and instructional work for Java and the Java ecosystem Andrew Binstock Java Magazine Core Java Volume I Fundamentals Twelfth Edition is the definitive guide to writing robust maintainable code Whatever version of Java you are using up to and including Java 17 this book will help you achieve a deep and practical understanding of the language and APIs With hundreds of realistic examples Cay S Horstmann reveals the most powerful and effective ways to get the job done This book is written for readers with prior programming experience who are looking for in depth coverage of the Java language and platform You ll learn about all language features in detail including the recent improvements in Java 17 The applied chapters and code examples cover the most up to date capabilities of the vast Java library For 25 years Core Java has prepared serious programmers for serious Java programming This first of two volumes offers in depth coverage of fundamental Java programming including object oriented programming generics collections lambda expressions concurrency and functional programming Classic material for Swing UI programming is included for those who need it This edition s new content covers text blocks switch enhancements records pattern matching for instanceof sealed classes and more Master foundational techniques idioms and best practices for writing superior Java code Leverage the power of interfaces lambda expressions and inner classes Harden programs through effective exception handling and debugging Write safer more reusable code with generic programming Improve performance and efficiency with Java s standard collections Explore simple programs with JShell and assemble complex programs with archives and modules Build cross platform GUIs with the Swing toolkit Fully utilize multicore processors with Java s powerful concurrency model See Core Java Volume II Advanced Features Twelfth Edition ISBN 978 0 13 787107 0 for expert coverage of Java 17 enterprise features the module system annotations networking security and advanced UI programming Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details **Handbook of Technical Communication** Alexander Mehler,Laurent Romary,2012-10-30 The Handbook of

Technical Communication brings together a variety of topics which range from the role of technical media in human communication to the linguistic multimodal enhancement of present day technologies. It covers the area of computer mediated text, voice and multimedia communication as well as of technical documentation. In doing so the handbook takes professional and private communication into account. Special emphasis is put on technical communication by means of web 2.0 technologies and its standardization in system development. In summary the handbook deals with theoretical issues of technical communication and its practical impact on the development and usage of text and speech technologies.

**The Design of Web APIs, Second Edition** Arnaud Lauret, 2025-07-22 Learn how to design web APIs that are a delight to use and maintain. Thousands of developers have followed renowned API expert Arnaud Lauret's guidance to create APIs that are flexible, secure and easily integrated. This new edition of the bestselling *The Design of Web APIs* covers the latest updates to the OpenAPI standard. It teaches you to streamline and standardize API design decisions with rationale and automation, and gives you insights you can apply to other API styles such as gRPC. You'll quickly see how a well designed and properly documented API gives your users autonomy and saves you from constant explanations and hand holding. This fully revised second edition of *The Design of Web APIs* teaches you the principles and techniques you need to design easy to consume public and private web APIs. In it you'll learn how to analyze requirements to identify API capabilities for versatile, reusable designs. Create HTTP based REST APIs with CRUD, batch, bulk or long operations. Design interoperable user friendly APIs with seamless operations and data flow. Ensure secure, efficient APIs while overcoming limitations and constraints. Modify APIs without breaking compatibility, evaluating consequences carefully. Future proof your APIs and choose effective versioning strategies. Document REST APIs using OpenAPI and JSON Schema for seamless implementation. Streamline and standardize API design decisions with rationale and automation. The *Design of Web APIs* Second Edition teaches vital skills for gathering requirements, balancing business and technical goals and constraints, and adopting a consumer first mindset. Each chapter is packed full of hands on examples including designing an Online Shopping API and user friendly banking operations, and over seventy exercises to help your new skills stick. Plus you'll explore paradigms applicable beyond REST APIs and fully describe and document your APIs with OpenAPI and JSON Schema. Your web APIs will soon be easier to consume and your clients internal and external will be happier than ever. About the technology Web APIs open up your software to developers exposing features and capabilities to other programs. Well designed web APIs are a joy. The bad ones are a nightmare with endless impact on system performance, developer productivity and end user experience. This book shows you how to design APIs your fellow developers will love to use. About the book *The Design of Web APIs* Second Edition teaches you to design efficient and adaptable REST APIs. This revised and rewritten second edition contains the latest updates to the OpenAPI standard along with insights you can apply to other API styles such as GraphQL. Learn vital skills for gathering requirements, creating easy to consume public and private web APIs and handling non backward compatible.

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Features Understand advanced topics such as API gateways API securities and cloudImplement patterns programmatically with easy to follow examplesModernize legacy codebase using API connectors layers and microservicesBook Description This book deals with the Representational State Transfer REST paradigm which is an architectural style that allows networked devices to communicate with each other over the internet With the help of this book you'll explore the concepts of service oriented architecture SOA event driven architecture EDA and resource oriented architecture ROA This book covers why there is an insistence for high quality APIs toward enterprise integration It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs You'll also understand how application delivery and deployments can be simplified and streamlined in the REST world The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications Besides detailing the API design and development aspects this book will assist you in designing and developing production ready testable sustainable and enterprise grade APIs By the end of the book you'll be empowered with all that you need to create highly flexible APIs for next generation RESTful services and applications What you will learnExplore RESTful concepts including URI HATEOAS and Code on DemandStudy core patterns like Statelessness Pagination and DiscoverabilityOptimize endpoints for linked microservices with API gatewaysDelve into API authentication authorization and API security implementationsWork with Service Orchestration to craft composite and process aware servicesExpose RESTful protocol based APIs for cloud computingWho this book is for This book is primarily for web mobile and cloud services developers

architects and consultants who want to build well designed APIs for creating and sustaining enterprise class applications You'll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips [Continuous API Management](#) Mehdi Medjaoui,Erik Wilde,Ronnie Mitra,Mike Amundsen,2021-10-18

A lot of work is required to release an API but the effort doesn't always pay off Overplanning before an API matures is a wasted investment while underplanning can lead to disaster The second edition of this book provides maturity models for individual APIs and multi API landscapes to help you invest the right human and company resources for the right maturity level at the right time How do you balance the desire for agility and speed with the need for robust and scalable operations Four experts show software architects program directors and product owners how to maximize the value of their APIs by managing them as products through a continuous lifecycle Learn which API decisions you need to govern Design deploy and manage APIs using an API as a product AaaP approach Examine 10 pillars that form the foundation of API product work Learn how the continuous improvement model governs changes throughout an API's lifetime Explore the five stages of a complete API product lifecycle Delve into team roles needed to design build and maintain your APIs Learn how to manage APIs published by your organization [Patterns for API Design](#) Olaf Zimmermann,Mirko Stocker,Daniel Lubke,Uwe Zdun,Cesare Pautasso,2022-12-05

Proven Patterns for Designing Evolvable High Quality APIs For Any Domain Technology or Platform APIs enable breakthrough innovation and digital transformation in organizations and ecosystems of all kinds To create user friendly reliable and well performing APIs architects designers and developers need expert design guidance This practical guide cuts through the complexity of API conversations and their message contents introducing comprehensive guidelines and heuristics for designing APIs sustainably and specifying them clearly for whatever technologies or platforms you use In Patterns for API Design Simplifying Integration with Loosely Coupled Message Exchanges five expert architects and developers cover the entire API lifecycle from launching projects and establishing goals through defining requirements elaborating designs planning evolution and creating useful documentation They crystallize the collective knowledge of many practitioners into 44 API design patterns consistently explained with context pros and cons conceptual solutions and concrete examples To make their pattern language accessible they present a domain model a running case study decision narratives with pattern selection options and criteria and walkthroughs of real world projects applying the patterns in two different industries Identify and overcome API design challenges with patterns Size your endpoint types and operations adequately Design request and response messages and their representations Refine your message design for quality Plan to evolve your APIs Document and communicate your API contracts Combine patterns to solve real world problems and make the right tradeoffs This book provides a healthy mix of theory and practice containing numerous nuggets of deep advice but never losing the big picture grounded in real world experience and documented with academic rigor applied and practitioner community feedback incorporated I am confident that it will serve the community well today and tomorrow Prof Dr Dr h c

**Management** Brajesh De,2023 APIs are the enablers for a thriving ecosystem that can drive revenue growth and ROIs for any organization This book will cover all relevant topics and trends that enterprise architects need to know to build and govern APIs as a product The second edition of the API Management builds on the foundation established in the first edition to cover recent advances in API development as well as the principles and best practices of building API as a product It has been updated to cover the latest and emerging trends in API architecture design and implementation covering the use of gRPC graphQL microservices and service mesh to building and manage a scalable API platform New chapters cover how to build an effective API strategy for digital transformation and implement an API First architecture to build and deliver APIs as a Product Any software architect or developer looking to adopt and build APIs for digital transformation and excellence within their organization will find this book to be an invaluable resource What You Will Learn Understand API Management Architecture and Design best practices How to build an effective API strategy and build APIs as product How to design build and test APIs using API First approach How to implement API Security What are the latest API technology trends and adoption across industry

**API Testing and Development with Postman** Dave Westerveld,2024-06-24 Avoid common API coding pitfalls and make test automation effortless with Postman and the Newman CLI Key Features Learn the tenets of effective API testing and design with workflow testing and more Gain an in depth understanding of Postman s new and existing features including Mock Servers Know when and how to use Postman to create high quality APIs for software and web apps Book DescriptionPostman is an invaluable tool for exploration and testing of web APIs and helping testers and developers figure out how an API works With Postman you can create effective test automation for any APIs and this guide will help you unleash its full potential API Testing and Development with Postman is an invaluable resource for anyone who wants to create a good quality API but isn t sure how to go about it This guide will help you unleash the full potential of Postman s test automation capabilities A combination of theory coupled with real world examples will help you learn how to use Postman to create well designed documented and tested APIs After you ve familiarized yourself with the theory you ll move on to hands on projects that will teach you how to add test automation to an existing API You ll also learn some of the new and powerful features that Postman has that can help you avoid introducing bugs This second fully updated edition features new chapters on workflow testing creating and using mock servers API security testing and performance testing The new and expanded information in this edition will help you future proof your APIs By the end of this book you ll be able to use Postman to set up and run API tests for any API that you are working with What you will learn Find out what is involved in effective API testing Leverage Postman to improve the quality of your API Use data driven testing in Postman to create scalable API tests How to create and use a Mock Server in Postman Verify and improve the quality of an API using contract testing Understand the basic principles of security testing Get to grips with functional and non functional testing of an API

Discover how to use industry standards such as OpenAPI and mocking Who this book is for The book is for software testing professionals and software developers looking to improve product and API quality through API test automation You'll also find this book useful if you have a basic understanding of APIs and want to build your skills for creating testing and documenting them The book assumes beginner level knowledge of JavaScript and API development

**Continuous API Management** Mehdi Medjaoui, Erik Wilde, Ronnie Mitra, Mike Amundsen, 2021-12-21 A lot of work is required to release an API but the effort doesn't always pay off Overplanning before an API matures is a wasted investment while underplanning can lead to disaster This practical guide provides maturity models for individual APIs and multi API landscapes to help you invest the right human and company resources for the right maturity level at the right time How do you balance the desire for agility and speed with the need for robust and scalable operations Four experts from the API Academy show software architects program directors and product owners how to maximize the value of their APIs by managing them as products through a continuous life cycle Learn which API decisions you need to govern and how and where to do so Design, deploy, and manage APIs using an API as a product AaaP approach Examine ten pillars that form the foundation of API product work Learn how the continuous improvement model governs changes throughout an API's lifetime Explore the five stages of a complete API product life cycle Delve into team roles needed to design, build, and maintain your APIs Learn how to manage your API landscape the set of APIs published by your organization

*Continuous API Management, 2nd Edition* Mehdi Medjaoui, Erik Wilde, Ronnie Mitra, Mike Amundsen, 2021 A lot of work is required to release an API But overplanning before an API matures is a wasted investment and underplanning can lead to disaster If you're just starting to build an API program and want to understand the work ahead of you or you need to learn how to manage your existing APIs this updated second edition provides maturity models for individual APIs and multi API landscapes How do you balance agility and speed with the need for robust and scalable operations Four API management experts show software architects program directors and product owners how to maximize the value of their APIs by managing them as products through a continuous lifecycle Learn which API decisions you need to govern Design, deploy, and manage APIs using an API as a product approach Examine the key pillars that form the foundation of API product work Learn how a continuous improvement model governs changes throughout an API's lifetime Explore the stages of a complete API product lifecycle Establish team roles needed to design, build, and maintain your APIs Manage and publish the set of APIs released by your organization

[IBM System i APIs at Work](#) Bruce Vining, Doug Pence, Ron Hawkins, 2007 Application Program Interfaces APIs are powerful built-in tools used to solve business problems Many System i programmers however do not have a working knowledge of the APIs available within i5 OS Worse still programmers who are familiar with the use of APIs may not be taking full advantage of the APIs and processing techniques available to them In this book author and noted IBM API expert Bruce Vining is your guide to making sense and effectively mastering the wide variety of APIs available with System i Each chapter is full of real business world

examples that you can modify and use in your own environment In recent years the business programmer has had to integrate applications often from different operating systems and programming platforms using different languages to integrate business rules and requirements APIs allow you to gain access to the underlying structure of an application With this book you will soon realize that APIs are among the most powerful tools in your toolbox New for this edition New chapters covering topics such as exit point concepts Integrated File System date and time cryptographic services TCP IP and more Sorting character data conversion and user application information APIs are covered in depth Fully updated code on previous APIs to bring them up to newer standards Updates to API changes since the previous edition Modernized RPG code to demonstrate current coding style An Appendix with COBOL examples and implementation including API equivalents for RPG support of memory management bit testing edit words and more Check Your Knowledge tasks at the conclusion of each chapter with solutions provided in RPG and COBOL Write client and server applications that enable your System i to communicate with other systems such as PCs using sockets      *API Access A Complete Guide - 2020 Edition* Gerardus Blokdyk,2019 *API Access A Complete Guide 2020 Edition*      *API Endpoint A Complete Guide - 2020 Edition* Gerardus Blokdyk,2019 *API Endpoint A Complete Guide 2020 Edition*      **APIs at Work, Second Edition** Bruce Vining,Doug Pence,Ron Hawkins,2005\*

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