

Oracle dba training material Handbook

oracle dba training material is essential for aspiring database administrators aiming to master Oracle database management and ensure the smooth operation of enterprise data systems. With the increasing reliance on data-driven decision-making, having comprehensive and up-to-date Oracle DBA training resources is crucial for professionals seeking to excel in this field. This article explores the key components of effective Oracle DBA training material, the topics covered, and how to utilize these resources to gain a competitive edge.

Understanding the Importance of Oracle DBA Training Material

Oracle Database Administrator (DBA) training material serves as the foundation for developing the skills needed to manage, troubleshoot, and optimize Oracle databases. Well-structured training resources help learners:

- Grasp complex concepts through clear explanations
- Gain practical skills with real-world scenarios
- Prepare for industry-recognized certifications
- Stay updated with the latest Oracle features and best practices

With the rapid evolution of database technologies, it is vital that training materials are current, comprehensive, and aligned with industry standards.

Core Components of Oracle DBA Training Material

Effective Oracle DBA training material encompasses a broad spectrum of topics and formats to cater to different learning needs. The main components include:

1. Theoretical Concepts and Fundamentals

This section introduces foundational knowledge such as:

- Oracle Database Architecture
- Oracle Instance and Database Structures
- Data Storage and Files
- Memory Structures and Background Processes

2. Installation and Configuration

Topics cover:

- Pre-installation Requirements
- Step-by-step Installation Procedures
- Database Configuration and Initialization Parameters
- Network Configuration (Listener Setup)

3. Backup and Recovery Strategies

Vital for ensuring data integrity and availability:

- RMAN (Recovery Manager) Usage
- Data Pump Export/Import
- Point-in-Time Recovery
- Backup Strategies and Scheduling

4. Performance Tuning and Optimization

Focuses on:

- Monitoring Tools (AWR, ASH)
- SQL Query Optimization
- Indexing Strategies
- Resource Management (CPU, Memory)

5. Security and User Management

Includes:

- User Creation and Privileges
- Role Management
- Auditing and Compliance
- Data Encryption

6. Maintenance and Monitoring

Covers:

- Database Health Checks
- Patch Management
- Log File Analysis
- Automating Routine Tasks

7. Advanced Topics and New Features

For experienced DBAs:

- Oracle RAC (Real Application Clusters)
- Data Guard and Data Replication
- Cloud Integration and Oracle Cloud Services
- Multitenant Architecture (Pluggable Databases)

Types of Oracle DBA Training Materials

To accommodate different learning styles, training materials come in various formats:

1. Official Oracle Documentation

Oracle provides comprehensive guides, manuals, and whitepapers that are authoritative sources for detailed information.

2. Online Courses and Tutorials

Platforms like Udemy, Coursera, and Oracle University offer curated courses with video lectures, quizzes, and hands-on labs.

3. Books and Study Guides

Popular titles include:

- "Oracle Database 12c: The Complete Reference"
- "Oracle DBA Handbook"
- "OCP Oracle Database Administration Certification Exam Guide"

4. Practice Labs and Virtual Environments

Simulated environments enable learners to perform real-world tasks safely and effectively.

5. Community Forums and Blogs

Engaging with communities like Oracle Community, Stack Overflow, and specialized blogs fosters peer learning and problem-solving.

How to Choose the Right Oracle DBA Training Material

Selecting suitable training resources depends on individual goals, experience level, and learning preferences:

- **Beginner Level:** Focus on foundational courses, tutorials, and introductory books that cover basic concepts.
- **Intermediate Level:** Look for courses that include hands-on labs, performance tuning, and troubleshooting.
- **Advanced Level:** Seek out materials on high availability, disaster recovery, and cloud integration.
- **Certification Preparation:** Use study guides and practice exams aligned with Oracle certifications like OCP or OCM.

Best Practices for Using Oracle DBA Training Material Effectively

To maximize learning outcomes, consider the following strategies:

- **Set Clear Goals:** Define what skills or certifications you aim to achieve.
- **Create a Learning Schedule:** Dedicate regular time slots for study and practice.
- **Hands-On Practice:** Apply theoretical knowledge through labs and real-world scenarios.
- **Engage with Communities:** Participate in forums and study groups for support and knowledge sharing.
- **Stay Updated:** Regularly review new Oracle releases, patches, and best practices.

Conclusion

Oracle DBA training material is a vital resource for anyone aspiring to become a proficient database administrator. It provides the necessary knowledge, skills, and confidence to manage complex Oracle database environments effectively. By selecting comprehensive, current, and well-structured

training resources and adopting best practices for learning, aspiring DBAs can accelerate their career growth and ensure they are prepared for industry challenges. Whether through official documentation, online courses, books, or practical labs, investing in quality Oracle DBA training material is a strategic step toward achieving professional excellence in database management.

Oracle DBA Training Material is an essential resource for aspiring database administrators seeking to master the complexities of Oracle Database management. As one of the most widely used relational database systems globally, Oracle demands a comprehensive understanding of its architecture, features, and best practices. Effective training material not only imparts theoretical knowledge but also emphasizes practical skills, enabling learners to handle real-world scenarios confidently. In this article, we explore the various aspects of Oracle DBA training material, including its structure, content quality, delivery methods, and the features that make it valuable or challenging for learners.

Overview of Oracle DBA Training Material

Oracle DBA (Database Administrator) training material is designed to equip learners with the skills needed to install, configure, manage, and troubleshoot Oracle databases. It encompasses a wide range of topics, from basic concepts like database architecture to advanced topics such as performance tuning and security management. The training material is typically structured into modules or chapters, each focusing on specific aspects of DBA responsibilities.

The goal of comprehensive training material is to bridge the gap between theoretical knowledge and practical application. Well-designed material incorporates real-world scenarios, hands-on exercises, and assessments to reinforce understanding. Given the complexity and critical nature of database management, high-quality training resources are vital for preparing learners to handle production environments effectively.

Content Structure and Curriculum

A robust Oracle DBA training curriculum is organized into logical sections that follow a progressive learning curve. The main topics generally include:

1. Introduction to Oracle Database

- Overview of relational databases
- Oracle Database architecture
- Oracle editions and licensing

2. Installation and Configuration

- Hardware and software prerequisites
- Installation procedures
- Initial database setup and configuration

3. Database Architecture and Components

- Instance and database concepts
- SGA and PGA memory structures
- Data files, control files, redo logs

4. Backup and Recovery

- RMAN (Recovery Manager) usage
- Backup strategies
- Recovery scenarios and procedures

5. User Management and Security

- User creation and management
- Roles and privileges
- Auditing and security best practices

6. Performance Tuning and Optimization

- Monitoring tools
- SQL optimization
- Indexing strategies

7. Automation and Scripting

- Shell scripting for DBA tasks
- Oracle Enterprise Manager automation
- Job scheduling and automation tools

8. High Availability and Clustering

- Data Guard
- RAC (Real Application Clusters)
- Flashback technology

9. Advanced Topics

- Data partitioning
- Oracle Multitenant architecture
- Cloud deployment considerations

This structured approach ensures that learners build foundational knowledge first before delving into advanced concepts. Quality training material often updates these topics to align with the latest Oracle versions and industry best practices.

Features of Effective Oracle DBA Training Material

High-quality training material for Oracle DBA should possess several key features that enhance learning outcomes:

- **Comprehensive Coverage:** It should cover all essential aspects of database administration, including core concepts, practical skills, and advanced topics.
- **Clear Explanations:** Concepts should be explained in an easy-to-understand manner, often supplemented with visuals like diagrams and flowcharts.
- **Hands-on Labs:** Practical exercises and lab sessions are crucial for experiential learning, enabling learners to apply theoretical knowledge.
- **Real-world Scenarios:** Case studies and real-world problems prepare learners for actual challenges faced in production environments.
- **Up-to-date Content:** Given the rapid evolution of Oracle technology, training material should reflect the latest features and best practices.
- **Assessment Tools:** Quizzes, assignments, and mock exams help evaluate understanding and readiness for certification exams.
- **Flexibility:** Self-paced online modules, downloadable resources, and instructor-led options cater to different learning preferences.

Pros and Cons of Different Types of Training Material

Various formats of Oracle DBA training material are available, each with its own advantages and limitations:

1. Official Oracle Training Courses

Pros:

- Developed by Oracle, ensuring accuracy and relevance
- Includes comprehensive curriculum aligned with certifications
- Access to instructor support and labs

Cons:

- Often expensive
- Fixed schedules may not suit all learners
- Requires physical presence or specific time commitments

2. Online Course Platforms (Udemy, Coursera, Pluralsight)

Pros:

- Cost-effective and flexible scheduling
- Wide variety of courses tailored for different skill levels
- Often include practical labs and quizzes

Cons:

- Quality varies depending on the instructor
- May lack personalized feedback
- Not always updated promptly with latest Oracle versions

3. Books and E-books

Pros:

- In-depth theoretical explanations
- Portable and accessible offline
- Can serve as reference material

Cons:

- Less interactive
- Limited hands-on exercises
- May become outdated quickly

4. Community Forums and Blogs

Pros:

- Access to real-world experiences and solutions
- Free resource for troubleshooting
- Interactive learning through discussions

Cons:

- Varying quality and accuracy
- Not structured for comprehensive learning
- Can be overwhelming for beginners

Choosing the Right Training Material

Selecting appropriate Oracle DBA training material depends on several factors:

- Skill Level: Beginners may prefer structured courses with guided labs, while experienced DBAs might seek advanced resources.
- Budget: Cost considerations influence the choice between free resources and paid courses.
- Learning Style: Some learners benefit from visual content and videos, while others prefer reading or hands-on exercises.
- Certification Goals: If aiming for Oracle certifications (e.g., OCA, OCP), ensure the material aligns with exam objectives.
- Version Compatibility: Oracle releases new versions regularly; training content should match the target Oracle version.

Additional Resources and Supplementary Material

To maximize training effectiveness, learners should supplement core materials with:

- Official Oracle Documentation: The definitive source for features and command references.
- Practice Environments: Setting up test databases to practice installation, configuration, and troubleshooting.
- Mock Exams: Preparing for certification tests.
- Community Engagement: Participating in forums like Oracle Community, Stack Overflow, and local user groups.

Conclusion

Oracle DBA training material plays a pivotal role in shaping competent database administrators capable of managing complex Oracle environments. The best resources are those that offer comprehensive, up-to-date, and practical content, tailored to learners' skill levels and goals. While there are various formats—official courses, online platforms, books, and community resources—selecting the right mix ensures a well-rounded learning experience. As Oracle continues to evolve with new features and architectures, staying current with the latest training material remains essential for ongoing professional development. Whether you're starting your DBA journey or seeking to deepen your expertise, investing in quality training resources will significantly enhance your skills, confidence, and career prospects in the dynamic world of database management.

Question What are the key topics covered in Oracle DBA training material? Oracle DBA training material typically covers database architecture, installation and configuration, backup and recovery, performance tuning, security, data modeling, and troubleshooting techniques. **Where can I find the most comprehensive Oracle DBA training resources?** You can find comprehensive Oracle DBA training resources on official Oracle University, online platforms like Udemy, Coursera, and Pluralsight, as well as community forums and official documentation. **How important is hands-on practice in Oracle DBA training?** Hands-on practice is crucial in Oracle DBA training as it helps reinforce theoretical knowledge, develop problem-solving skills, and gain real-world experience in managing Oracle databases. **What certifications can I pursue after completing Oracle DBA training?** After training, you can pursue certifications like Oracle Certified Associate (OCA), Oracle Certified Professional (OCP), and Oracle Certified Expert (OCE) to validate your skills. **Are there updated Oracle DBA training materials for the latest Oracle Database versions?** Yes, most training providers update their materials regularly to align with the latest Oracle Database versions, including Oracle 19c, Oracle 21c, and beyond. **What are the prerequisites for starting Oracle DBA training?** Prerequisites typically include a basic understanding of SQL, fundamental knowledge of operating systems (Linux/Windows), and some familiarity with database concepts. **Can Oracle DBA training material help me prepare for real-world database management scenarios?** Absolutely. Quality training materials include practical examples, case studies, and exercises designed to prepare you for real-world database management challenges. **How do I choose the right Oracle DBA training material for my learning needs?** Choose materials based on your current skill level, learning preferences (video, books, interactive labs), and whether they cover the latest Oracle versions and industry best practices. **Is Oracle DBA training material suitable for beginners or only experienced**

database administrators? Oracle DBA training material is available for all levels, with beginner-friendly courses introducing fundamental concepts and advanced materials for experienced DBAs seeking specialization.

Related keywords: Oracle DBA, database administration, Oracle certification, SQL tuning, Oracle backup and recovery, PL/SQL, Oracle RAC, database security, performance tuning, Oracle architecture

AUTODESK REVIT 2014 MATERIAL LIBRARY METRIC

autodesk revit 2014 material library metric is an essential component for architects, engineers, and construction professionals who rely on Revit for Building Information Modeling (BIM). The material library in Revit 2014 provides a comprehensive set of predefined materials that facilitate realistic visualizations, accurate simulations, and efficient documentation workflows. Understanding how to effectively utilize and customize the material library is crucial for optimizing project outcomes, especially when working with metric units, which are standard in many countries around the world.

In this article, we will explore the details of the Autodesk Revit 2014 material library metric, including its structure, how to access and modify materials, best practices for managing materials, and tips for leveraging the library to enhance your BIM projects.

Understanding the Revit 2014 Material Library

What is the Material Library?

The material library in Revit 2014 is a collection of predefined materials that can be applied to different elements within a project. These materials define the visual appearance, physical properties, and rendering characteristics of objects such as walls, floors, furniture, and structural components. The library helps streamline the modeling process by providing ready-to-use materials that can be customized further.

Metric Units in the Material Library

Revit 2014's material library supports metric units, making it suitable for projects in regions where the metric system is standard. This includes measurements such as millimeters (mm), centimeters (cm), and meters (m). When working with metric units, it is essential to ensure that your project units are correctly set, and materials are configured to reflect real-world dimensions accurately.

Accessing and Navigating the Material Library

How to Access the Material Library

To access the material library in Revit 2014:

- Open your Revit project.
- Navigate to the **Manage** tab on the ribbon.
- Click on **Materials** in the Settings panel.
- The Materials dialog box will open, displaying the library's contents.

Within this dialog, you can browse existing materials, create new ones, or duplicate and modify existing ones.

Structure of the Material Library

The material library in Revit 2014 is organized into categories such as:

- Wood
- Concrete
- Metal
- Glass
- Fabric
- Paint
- Plastics

Each category contains multiple predefined materials with specific visual and physical properties.

Working with Materials in Revit 2014

Applying Materials to Elements

Applying materials is straightforward:

- Select the element in the model.
- In the Properties palette, find the **Material** parameter.
- Click the drop-down menu and choose an existing material from the library.
- Alternatively, click **Manage Materials** to create or modify materials.

Creating Custom Materials

To create a custom material tailored to your project needs:

- Open the Materials dialog box.
- Click **New** to create a new material.
- Name your material appropriately.
- Adjust the appearance settings, including color, texture, reflectivity, and transparency.
- Configure physical properties such as thermal conductivity and density, especially important for energy analysis.
- Save your custom material for reuse in your project.

Modifying Existing Materials

Existing materials can be fine-tuned to match specific design requirements:

- Select the material from the library.
- Click **Edit** to open the Material Editor.
- Adjust the visual and physical parameters accordingly.
- Save changes to update all instances of that material in your project.

Best Practices for Managing the Material Library

Organizing Custom Materials

As your project progresses, you may accumulate numerous custom materials. To maintain organization:

- Create a dedicated category or subcategory for your custom materials.
- Name materials clearly to indicate their purpose or finish.
- Use consistent naming conventions to facilitate quick searching.

Sharing Materials Across Projects

Revit allows you to export and import material libraries, enabling consistent material usage across multiple projects:

- Export your custom materials by saving the Material Library file (.adsk) from the Materials dialog.
- In a new project, import the library to access the same materials.

Keeping the Library Up-to-Date

Regularly review and update your materials to reflect changes in product specifications or design preferences. This ensures visual consistency and accurate physical properties.

Leveraging the Material Library for Better Visualizations and Analysis

Realistic Renders

The material library's appearance settings can be fine-tuned to produce photorealistic renderings:

- Adjust reflectivity, glossiness, and transparency.
- Apply textures and bump maps for surface detail.
- Use the rendering settings in Revit or export to external rendering software for higher quality visuals.

Energy and Structural Analysis

Physical properties assigned to materials influence energy modeling and structural performance:

- Define thermal conductivity, specific heat, and density for energy analysis.
- Ensure materials are accurately represented for structural simulations.

Compliance and Documentation

Using standardized materials from the library helps in maintaining compliance with building codes and in preparing precise documentation for procurement and construction.

Tips and Tricks for Using the Revit 2014 Material Library Metric

- **Use Templates:** Create project templates with predefined materials to streamline workflows.
- **Leverage Material Overrides:** For specific elements, override default materials without altering the library.
- **Utilize Material Libraries from Manufacturers:** Import manufacturer-specific materials for

greater accuracy.

- **Regular Backups:** Save copies of your custom material libraries regularly to prevent data loss.
- **Documentation:** Keep documentation of material properties for future reference or project handovers.

Conclusion

The Autodesk Revit 2014 material library metric is a powerful tool for creating visually appealing, physically accurate, and efficiently managed building models. Understanding how to access, customize, and organize materials ensures that your BIM projects are not only aesthetically compelling but also compliant and functional. By leveraging the full capabilities of the material library, professionals can significantly enhance their modeling workflows, produce high-quality visualizations, and perform precise analyses. Whether you're working on a small residential project or a large commercial development, mastering the Revit 2014 material library is an essential step toward achieving your design and documentation goals.

Autodesk Revit 2014 Material Library Metric: An In-Depth Exploration

Introduction

Autodesk Revit 2014 Material Library Metric stands as a cornerstone for architects, engineers, and BIM professionals seeking to streamline their design processes and enhance their project realism. As a pivotal component within Revit's comprehensive Building Information Modeling (BIM) environment, the Material Library provides users with an extensive repository of predefined materials, enabling accurate visualization, analysis, and documentation of building components. In this article, we delve into the intricacies of the Revit 2014 Material Library in the metric system, exploring its features, practical applications, and how it empowers professionals to create more realistic and data-rich models.

Understanding the Revit 2014 Material Library: An Overview

What is the Material Library?

The Material Library in Autodesk Revit 2014 is a curated collection of materials that can be assigned to various elements within a building model. These materials define the appearance, physical properties, and behavior of surfaces and objects, such as walls, floors, roofing, and furnishings. They serve multiple purposes, including:

- Visualization: Providing realistic renderings and visual styles.
- Documentation: Supporting accurate schedules and specifications.

- Analysis: Enabling performance simulations like thermal or energy analysis.

Metric System Integration

Revit 2014's Material Library is designed with a focus on the metric system, catering to projects in regions where metric units are standard. This integration simplifies the process of creating, editing, and applying materials with measurements in meters, centimeters, and millimeters, ensuring that the model's physical dimensions align precisely with real-world specifications.

Features of Revit 2014 Material Library Metric

Extensive Material Database

The Material Library comes with a vast array of predefined materials covering common construction materials such as:

- Concrete
- Brick
- Wood
- Metal
- Glass
- Ceramics
- Plastics

Each material is detailed with properties that influence visual appearance and physical characteristics.

Customization and Creation

Revit allows users to customize existing materials or create new ones from scratch. This flexibility is essential for:

- Modeling unique or proprietary materials.
- Adjusting visual attributes like color, texture, and reflectivity.
- Defining physical properties such as thermal conductivity or density.

Material Types and Categories

Materials are organized into categories, making it easier to locate and assign appropriate textures.

These categories include:

- Structural Materials
- Finish Materials
- System Materials
- Imported Materials

This organization streamlines the workflow, especially in large projects with diverse material requirements.

Navigating the Material Editor: Practical Tips

Accessing the Material Browser

In Revit 2014, the Material Browser is the primary interface to explore and manage materials. To access it:

- Navigate to the Manage tab.
- Click on Materials in the Settings panel.

The browser displays a list of default and custom materials, along with their properties.

Editing Material Properties

Within the Material Editor, users can modify:

- Graphics: Color, pattern, transparency, and surface patterns.
- Appearance: Render appearance settings, including reflectivity, glossiness, and bump maps.
- Physical: Thermal properties, density, and other physical parameters.

Adjustments here influence both visual realism and analytical accuracy.

Applying Materials to Elements

Materials can be assigned directly to model elements via:

- The Properties palette.

- Material override options.
- Drag-and-drop in the visual model.

Proper assignment ensures consistency across documentation and visualization.

Practical Applications in Metric Projects

Architectural Visualization

Using the metric material library allows architects to produce highly realistic renderings that accurately represent real-world materials. This includes:

- Precise color matching.
- Material textures scaled appropriately to dimensions.
- Realistic reflections and transparency settings.

Structural Analysis and Performance Simulation

For structural engineers, materials with defined physical properties enable simulations such as:

- Structural load calculations.
- Thermal performance analysis.
- Energy modeling.

Having materials in metric units ensures that calculations are based on real-world measurements.

Construction Documentation and Specifications

Accurate material definitions assist in generating precise schedules and specifications, critical for procurement and construction management.

Challenges and Best Practices

Ensuring Consistency Across Models

In projects with multiple team members or phases, maintaining uniform material definitions is crucial. Best practices include:

- Creating shared parameter files for materials.
- Documenting custom material properties.
- Regularly updating the Material Library.

Managing File Sizes and Performance

A comprehensive material library can increase project file size and impact performance. To optimize:

- Use linked or referenced material libraries when appropriate.
- Archive unused or outdated materials.
- Regularly audit materials for relevance and accuracy.

Compatibility and Version Control

While the discussion centers on Revit 2014, users should be aware of compatibility issues when upgrading or sharing files across different Revit versions. Maintaining a standardized material library mitigates discrepancies.

Enhancing the Material Library Experience

Utilizing External Resources

Many professionals supplement Revit's default material library with:

- Custom textures and materials created in external software like Photoshop or Substance Designer.
- Imported materials from manufacturer catalogs.

These additions can increase realism and project specificity.

Automating Material Assignments

Using Revit's tools and plugins to automate material assignments based on parameters or templates can improve efficiency, especially in large projects.

Future Outlook and Evolving Features

Although Revit 2014 is now several versions old, its Material Library laid the foundation for

continued enhancements in subsequent releases. Modern Revit versions offer:

- Improved rendering capabilities.
- More detailed physical property settings.
- Enhanced library management tools.

Understanding the 2014 material system provides valuable insights into the evolution of BIM workflows.

Conclusion

The Autodesk Revit 2014 Material Library in metric units remains an essential tool for professionals aiming for precise, realistic, and data-rich building models. Its extensive database, customization options, and integration with Revit's powerful environment enable users to craft detailed visualizations, conduct meaningful analyses, and produce accurate documentation. By mastering the features and best practices associated with the material library, BIM practitioners can significantly elevate the quality and efficiency of their projects, ensuring that designs are not only visually compelling but also grounded in real-world physical properties. As BIM technology continues to evolve, a solid understanding of these foundational tools remains vital for adapting to future innovations in architectural and engineering workflows.

Question How do I access the Material Library in Autodesk Revit 2014 Metric version? In Revit 2014 Metric, you can access the Material Library by going to the Manage tab, clicking on 'Materials,' and then selecting 'Material Browser.' From there, you can browse and load materials from the library. Can I customize or add new materials to the Revit 2014 Metric Material Library? Yes, you can create custom materials or duplicate existing ones within Revit 2014. To add new materials, open the Material Browser, click 'Create New Material,' and define its properties. To include external library materials, import them via the Material Browser options. What are the differences between the Revit 2014 metric material library and the imperial version? The primary difference lies in the units and material standards. The metric library uses SI units and compatible material properties, while the imperial version uses imperial units. Material appearance and physical properties may also vary accordingly. How can I load additional material libraries into Revit 2014 Metric? You can load additional libraries by importing material files (.adsklib) into the Material Browser. Use the 'Manage Materials' option, then 'Import Material Library,' and select the desired library files to add them to your project. Are there any common issues with the Revit 2014 Material Library in metric projects? Common issues include missing materials after library import, mismatched units, or materials not displaying correctly. These can often be resolved by reloading libraries, checking unit settings, or updating graphics drivers. How can I ensure accurate material representation in Revit 2014 metric projects? Ensure that the materials are correctly assigned with proper physical and visual properties, and that the project units are set to metric. Preview materials

in the Material Browser to confirm appearance and properties before applying them. Is it possible to export Revit 2014 metric materials for use in other software? Direct export of materials from Revit 2014 is limited, but you can export material appearance as images or use the material library files (.adsklib) to share materials with compatible software or Revit versions. For full material data, consider exporting the project or using IFC files.

Related keywords: Autodesk Revit 2014, material library, metric units, Revit materials, BIM materials, Revit families, Revit textures, Revit 2014 tutorials, material parameters, Revit material libraries

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