

Project Design Template A 9 Step Approach To Designing A

Discover BIM: A better way to build better buildings. Building Information Modeling (BIM) is a new approach to design, construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and Contractors provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. The Handbook: Introduces Building Information Modeling and the technologies that support it Reviews BIM and its related technologies, in particular parametric and object-oriented modeling, its potential benefits, its costs, and needed infrastructure Explains how designing, constructing, and operating buildings with BIM differs from pursuing the same activities in the traditional way using drawings, whether paper or electronic Discusses the present and future influences of BIM on regulatory agencies; legal practice associated with the building industry; and manufacturers of building products Presents a rich set of BIM case studies and describes various BIM tools and technologies Shows how specific disciplines owners, designers, contractors, and fabricators can adopt and implement BIM in their companies Explores BIM's current and future impact on industry and society Painting a colorful and thorough picture of the state of the art in Building Information Modeling, the BIM Handbook guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to build better buildings, that consume fewer materials, and require less time, labor, and capital resources.

Complete PCB Design Using OrCad Capture and Layout provides instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. The book is written for both students and practicing engineers who need a quick tutorial on how to use the software and who need in-depth knowledge of the capabilities and limitations of the software package. There are two goals the book aims to reach: The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Layout. Capture is used to build the schematic diagram of the circuit, and Layout is used to design the circuit board so that it can be manufactured. The secondary goal is to show the reader how to add PSpice simulation capabilities to the design, and how to develop custom schematic parts, footprints and PSpice models. Often times separate designs are produced for documentation, simulation and board fabrication. This book shows how to perform all three functions from the same schematic design. This approach saves time and money and ensures

continuity between the design and the manufactured product. Information is presented in the exact order a circuit and PCB are designed. Straightforward, realistic examples present the how and why the designs work, providing a comprehensive toolset for understanding the OrCAD software. Introduction to the IPC, JEDEC, and IEEE standards relating to PCB design. Full-color interior and extensive illustrations allow readers to learn features of the product in the most realistic manner possible.

The intent of this book is to provide the interior design student a well-rounded knowledge of Autodesk Revit tools and techniques. These skills can then be applied to enhance professional development in both academia and industry. Each book also includes access to nearly 100 video tutorials designed to further help you master Autodesk Revit. The overall premise of the book is to help you learn Revit while developing the interior of a two story law office. At the start of the book you are provided an architectural model with established columns, beams, exterior walls, minimal interior walls and roofs in which to work. This allows more emphasis to be placed on interior design rather than primary architectural elements. The chapters' chronology generally follows the typical design process. You will find this book helps you more accurately and efficiently develop your design ideas and skills. The first chapter introduces you to Revit, Building Information Modeling (BIM) and the basics of opening, saving and creating a new project. The second provides a quick introduction to modeling basic elements in Revit including walls, doors, windows and more. This chapter is designed to show you how powerful Revit truly is and to get you excited for the rest of the book. The remainder of the book is spent developing the interior space of the law office with an established space program. You will learn how to view and navigate within the provided 3D architectural model, manage and create materials and develop spaces with walls, doors and windows. Once all the spaces are added to the model, several areas are explored and used as the basis to cover Revit commands and workflows. At the end of this tutorial, you will be able to model floor finishes, ceilings with soffits, casework, custom reception desk, restrooms, furniture and light fixtures. Additional features such as tags, schedules and photorealistic rendering will be covered.

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Building Information Modelling (BIM) in Design, Construction, and Operations contains the proceedings of the first in a planned series of conferences dealing with design coordination, construction, maintenance, operation and decommissioning. The book gives details of how BIM tools and techniques have fundamentally altered the manner in which modern construction teams operate, the processes through which designs are evolved, and the relationships between conceptual, detail, construction and life cycle stages. The papers contributed by experts from industry, practice and academia, debate key topics, develop innovative solutions, and predict future trends. The interdisciplinary nature of the contents and the collaborative practices discussed, so important within the built environment, will appeal to those engaged in design, surveying, visualisation, infrastructure, real estate, construction law, insurance, and facilities management. Topics covered include: BIM in design coordination; BIM in construction operations, BIM in building operation and maintenance; BIM and sustainability; BIM and collaborative working and practices; BIM health and safety and BIM-facilities management integration, among others.

This is an assessment resource which aims to give a reliable judgement of pupils' levels of attainment at the end of Key Stage 3 through structured assignments. These involve designing and making desk-top picture frames, a portable night-light, and environmentally-responsible packaging, posters and other items. The pack includes lesson plans, an

assessment check-list, template sheets, project sheets and an end-of-project test.

Discover exciting behind-the-scenes opportunities and challenges in technology today with Schwalbe's unique INFORMATION TECHNOLOGY PROJECT MANAGEMENT, REVISED 7E. This one-of-a-kind book demonstrates the principles distinctive to managing information technology (IT) projects that extend well beyond standard project management requirements. No book offers more up-to-the minute insights and software tools for IT project management success, including updates that reflect the latest PMBOK Guide, 5th edition, the global standard for managing projects and earning certification. The book weaves today's theory with successful practices for an understandable, integrated presentation that focuses on the concepts, tools, and techniques that are most effective today. INFORMATION TECHNOLOGY PROJECT MANAGEMENT is the only book to apply all ten project management knowledge areas to IT projects. You master skills in project integration, scope, time, cost, quality, human resource, communications, risk, procurement, and stakeholder management as well as all five process groups--initiating, planning, executing, monitoring and controlling, and closing. Intriguing examples from familiar companies featured in today's news, a new Agile case, opportunities with MindView software, and a new chapter on project stakeholder management further ensure you are equipped to manage information technology projects with success. The REVISED Seventh Edition has updated Appendix A for Microsoft Project 2013. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Thomsen and Hansen give easy-to-understand examples and provide readers with everything they need to create Enterprise solutions with .NET.

This timely book helps educators unleash the interactive potential of PowerPoint to build their own multimedia material that perfectly matches the needs of their students. • Tips for modifying included examples into classroom projects • Updated material includes advanced scripting techniques, new figures, and new interactive features of PowerPoint • Numerous quizzes and tests to reinforce skills • A selection of commonly-used templates are provided

Microsoft Visual Basic .NET provides the productivity features developers need to rapidly create enterprise-critical web applications. In Visual Basic .NET and the .NET Platform: An Advanced Guide, author Andrew Troelsen shows experienced developers how to use VB .NET for developing virtually every possible kind of .NET application. From Windows-based to web-based applications, ADO .NET, XML Web services, and object-oriented language features, it's all here. There are detailed discussions of every aspect of .NET development and useful examples with no toy code.

Troelsen starts with a brief philosophy of the VB .NET language and then quickly moves to key technical and architectural issues for .NET developers. Not only is there extensive coverage of the .NET Framework, but Troelsen also

describes the object-oriented features of VB .NET including inheritance and interface-based programming techniques. You'll also learn how to use VB .NET for object serialization, how to access data with ADO.NET, and how to build (and interact with) .NET Web Services, and how to access legacy COM applications. Written in the same five-star style as Troelson's previous two books, *Developer's Workshop to COM and ATL 3.0 and C# and the .NET Platform*, this is the comprehensive book on using VB .NET to build .NET applications that you've been waiting for! Learn from the author! Check out Andrew's workshop schedule at <http://www.intertech-inc.com/courses/CourseDetails.asp?ID=99075&LOC>. Assuming only basic knowledge of C#, *Beginning C# 5.0 Databases* teaches all the fundamentals of database technology and database programming readers need to quickly become highly proficient database users and application developers. A comprehensive tutorial on both SQL Server 2012 and Visual Studio 2012, *Beginning C# 5.0 Databases* explains and demonstrates various techniques and ways to build a database application using T-SQL and C#. Full of practical, detailed examples, it's been fully revised and updated for Winforms using C# 5.0 and Visual Studio 2012 and offers the most complete, detailed, and gentle introduction to database technology for all C# programmers at any level of experience. Comprehensively and concisely explains fundamental database concepts and database programming techniques Rich in step-by-step working examples of both T-SQL and C# programs Covers all the features ADO.NET most database programming ever requires

This book showcases cutting-edge research papers from the 7th International Conference on Research into Design (ICoRD 2019) – the largest in India in this area – written by eminent researchers from across the world on design processes, technologies, methods and tools, and their impact on innovation, for supporting design for a connected world. The theme of ICoRD'19 has been “Design for a Connected World”. While Design traditionally focused on developing products that worked on their own, an emerging trend is to have products with a smart layer that makes them context aware and responsive, individually and collectively, through collaboration with other physical and digital objects with which these are connected. The papers in this volume explore these themes, and their key focus is connectivity: how do products and their development change in a connected world? The volume will be of interest to researchers, professionals and entrepreneurs working in the areas on industrial design, manufacturing, consumer goods, and industrial management who are interested in the use of emerging technologies such as IOT, IIOT, Digital Twins, I4.0 etc. as well as new and emerging methods and tools to design new products, systems and services.

Focused around a hotel suite project, *AutoCAD 2014 for the Interior Designer* provides the Interior Design student with a non-intimidating, tutorial based, approach to learning the AutoCAD program. It accomplishes this by taking students that have no computer design experience from simple commands to complete projects in this single-semester sized text. This

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well organized and progressive approach to learning AutoCAD sets this text apart from others. To support all users, this book now covers AutoCAD for both Macs and PCs. The emphasis of this book is on easy to understand descriptions and instructions, allowing the non-technical, artistic, visual learning Interior Design student to quickly get past the fear of using the computer to produce drawings. The focus is entirely on the use of AutoCAD for the Interior Design field and not simply architectural drawings. Chapters alternate between command descriptions, which are organized by a command set category, and tutorials. This allows students to easily refer back to command descriptions without hunting through a tutorial that introduces commands as it progresses. The emphasis is on the practical use of commands using the AutoCAD ribbon workspace, rather than the multiple (and seldom used) command options. Multiple tutorials of the hotel suite, which includes floor plan, elevation views, dimensioning, and plotting, provide a practical application of the commands learned in the preceding chapters. Completely dimensioned drawings are provided at the beginning of each tutorial so that the advanced student, or an instructor led class, can complete them without going through the step-by-step process. This textbook is classroom proven and relevant interior design homework problems are provided. After completing this book, the student will be able to create all their 2-D Interior Design work using AutoCAD.

A fast, focused introduction to Revit functions, tools, and concepts As the leading Building Information Modeling software package, Revit is praised for its ease of use, power, and sophistication. Authored by a high profile team of Revit professionals, this reference and tutorial quickly has readers building skills to an intermediate level by exploring Revit tools and tasks, putting parametric modeling to use, detailing the basics of views and constraints, and working with detailing, massing, rendering, interior design, and more. Based on real-world workflows and projects, this book shows you readers how to model, document, present, and share designs using Revit just the way the pros do. Discussions and workflows are reinforced with tutorials drawn from the authors' extensive experience, and a beautiful 16-page color insert focuses on real-world Revit projects. Helps novice-to-intermediate level users learn Revit and its functions, tools, and concepts easily and efficiently Contains straightforward explanations, real-world examples, beautiful illustrations, and practical tutorials that focus intently on accomplishing vital Revit tasks Features in-depth discussions reinforced by comprehensive step-by-step exercises that show you how to model, document, present, and share your designs Includes a beautiful 16-page color insert with inspirational and instructional images drawn from the authors' professional experience This book is the perfect resource for readers of all skill levels who want to quickly accomplish crucial Revit tasks.

"The BIM Handbook is an extensively researched and meticulously written book, showing evidence of years of work rather than something that has been quickly put together in the course of a few months. It brings together most of the current information about BIM, its history, as

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well as its potential future in one convenient place, and can serve as a handy reference book on BIM for anyone who is involved in the design, construction, and operation of buildings and needs to know about the technologies that support it. The need for such a book is indisputable, and it is terrific that Chuck Eastman and his team were able to step up to the plate and make it happen. Thanks to their efforts, anyone in the AEC industry looking for a deeper understanding of BIM now knows exactly where to look for it." —AECbytes book review, August 28, 2008 (www.aecbytes.com/review/2008/BIMHandbook.html)

DISCOVER BIM: A BETTER WAY TO BUILD BETTER BUILDINGS

Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Second Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Completely updated material covering the current practice and technology in this fast-moving field Expanded coverage of lean construction and its use of BIM, with special focus on Integrated Project Delivery throughout the book New insight on the ways BIM facilitates sustainable building New information on interoperability schemas and collaboration tools Six new case studies Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Second Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

While advanced practice nursing students generally have good clinical skills, many lack the clinical scholarship capabilities that are required for writing scholarly proposals. The only resource of its kind, this is a practical guide for MSN project students and DNP capstone students who must plan and organize their clinical projects into quality proposals. It provides the requisite guidelines for integrating research and best evidence with clearly communicated professional objectives. The book's "how-to" approach helps to demystify the organization and packaging of advanced practice clinical projects into tight proposals. The text includes an overview of basic scholarly approaches required for professional communication that support a diverse array of clinical project topics. Students interact with the content via ongoing prompts and questions that guide them in the kind of reflective writing that facilitates greater understanding of their projects and subsequent proposals. Chapters are organized into three broad sections with a logical flow toward completion of planning, writing, and communicating a project proposal. Each chapter is consistently organized to include objectives, tips for making proposals concise yet complete, and tools for self-assessment. Also included are key point summaries, reflective questions, and writing prompts. Additionally, the book provides plentiful checklists, five exercises that jump-start the process, examples of good writing, and additional resources for further study. Key Features: Provides topflight guidance in proposal writing for nursing capstones and clinical projects Details parameters for integrating scholarship with clearly communicated professional objectives Contains numerous writing prompts and questions that guide students in reflective scholarly writing Includes a project triangle framework, exercises to jump-start the process, examples of good writing, reflective questions, and tools for self-assessment Offers helpful tips for making proposals concise yet complete

Learn to program an array of customized devices and solutions As a compact, highly efficient, scalable operating system, Windows Embedded Compact 7 (WEC7) is one of the best options for developing a new generation of network-enabled, media-rich, and service-oriented devices. This in-depth resource takes you through the benefits and capabilities of WEC7 so that you can start using this performance

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development platform today. Divided into several major sections, the book begins with an introduction and then moves on to coverage of OS design, application development, advanced application development, how to deploy WEC7 devices, and more. Examines the benefits of Windows Embedded Compact 7 (WEC7) Reviews the various elements of OS design, including configuring and building a customized OS runtime image, using debugging and remote tools, and more Explains how to develop native code applications with Visual Studio 2010, develop database applications with SQL server compact, and use the application deployment option Discusses how to deploy a WEC device, use the boot loader, launch WEC using BIOSLoader, and deploy a WEC power toy If you're interested in learning more about embedded development or you're seeking a higher performance development platform, then this is the book for you.

Cover -- Title Page -- Copyright -- Contents -- About the Author -- Preface -- Chapter 1 SiP Design and Simulation Platform -- 1.1 From package to SiP -- 1.2 The development of mentor SiP design technology -- 1.3 The mentor SiP design and simulation platform -- 1.3.1 SiP platform introduction -- 1.3.2 Schematic input -- 1.3.3 Concurrent system design -- 1.3.4 SiP board design -- 1.3.5 Signal integrity and power integrity simulation -- 1.3.6 Thermal analysis -- 1.3.7 The advantages of the mentor SiP design and simulation platform -- 1.3.7.1 Characteristics of mentor SiP design and simulation platform -- 1.3.7.2 Design areas of mentor SiP design and simulation platform -- 1.4 The introduction of the finished project -- Chapter 2 Introduction to Package -- 2.1 Definition and function of package -- 2.2 Development of packaging technology -- 2.3 SiP and Related Technologies -- 2.3.1 The appearance of SiP technology -- 2.3.2 SoC and SiP -- 2.3.3 SiP-related technologies -- 2.4 The development of the package market -- 2.5 Package manufacturers -- 2.5.1 Traditional package manufacturers -- 2.5.2 New SiP manufacturers in different areas -- 2.6 Bare chip suppliers -- Chapter 3 The SiP Production Process -- 3.1 BGA: The mainstream SiP package form -- 3.2 The SiP package production process -- 3.3 Three key elements of SiP -- Chapter 4 New Package Technologies -- 4.1 TSV (Through Silicon Via) technology -- 4.1.1 TSV introduction -- 4.1.2 TSV technical characteristics -- 4.1.3 TSV application and prospects -- 4.2 Integrated passive device (IPD) technology -- 4.2.1 IPD introduction -- 4.2.2 The advantages of IPD -- 4.3 Package on package (PoP) technology -- 4.3.1 The limitations of 3D SiP -- 4.3.2 The application of PoP -- 4.3.3 The emphasis in PoP design -- 4.4 Apple A8 processor - an example of a PoP product -- Chapter 5 SiP Design and Simulation Flow

Aimed at Web developers who know the basics of Dreamweaver and want to take the next step, this work provides a guide to learning Dreamweaver MX 2004 tips, tricks, and best practices.

This text is about achieving usability in product user interface design through a process called Usability Engineering. The techniques presented include not only UI requirements analysis, but also organizational and managerial strategies.

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This book is primarily a Microsoft Project book and designed to teach project management professionals, who understand the PRINCE2 2009 and earlier versions of the PRINCE2 methodology, to use Microsoft Project to plan and control a PRINCE2 projects. It identifies which PRINCE2 processes may be handled with Microsoft Project and how the software may be effectively used to assist in managing a project. The book is based on Microsoft Project 2007, but may be used with Microsoft Project 2003, 2002 or 2000 as the book outlines the differences between the versions.

Focused around a hotel suite project, AutoCAD 2013 for the Interior Designer provides the Interior Design student with a

non-intimidating, tutorial based, approach to learning the AutoCAD program. It accomplishes this by taking students that have no computer design experience from simple commands to complete projects in this single-semester sized text. This well organized and progressive approach to learning AutoCAD sets this text apart from others. The emphasis of this book is on easy to understand descriptions and instructions, allowing the non-technical, artistic, visual learning Interior Design student to quickly get past the fear of using the computer to produce drawings. The focus is entirely on the use of AutoCAD for the Interior Design field and not simply architectural drawings. Chapters alternate between command descriptions, which are organized by a command set category, and tutorials. This allows students to easily refer back to command descriptions without hunting through a tutorial that introduces commands as it progresses. The emphasis is on the practical use of commands using the AutoCAD ribbon workspace, rather than the multiple (and seldom used) command options. Multiple tutorials of the hotel suite, which includes floor plan, elevation views, dimensioning, and plotting, provide a practical application of the commands learned in the preceding chapters. Completely dimensioned drawings are provided at the beginning of each tutorial so that the advanced student, or an instructor led class, can complete them without going through the step-by-step process. This textbook is classroom proven and relevant interior design homework problems are provided. After completing this book, the student will be able to create all their 2-D Interior Design work using AutoCAD.

Focused around a hotel suite project, AutoCAD 2019 for the Interior Designer provides the Interior Design student with a non-intimidating, tutorial based approach to learning the AutoCAD program. It accomplishes this by taking students that have no computer design experience from simple commands to complete projects in this single-semester sized text. This well organized and progressive approach to learning AutoCAD sets this text apart from others. To support all users, this book now covers AutoCAD for both Macs and PCs. The emphasis of this book is on easy to understand descriptions and instructions, allowing the non-technical, artistic, visual learning Interior Design student to quickly get past the fear of using the computer to produce drawings. The focus is entirely on the use of AutoCAD for the Interior Design field and not simply architectural drawings. Chapters alternate between command descriptions, which are organized by a command set category, and tutorials. This allows students to easily refer back to command descriptions without hunting through a tutorial that introduces commands as it progresses. The emphasis is on the practical use of commands using the AutoCAD ribbon workspace, rather than the multiple (and seldom used) command options. Multiple tutorials of the hotel suite, which includes floor plan, elevation views, dimensioning, and plotting, provide a practical application of the commands learned in the preceding chapters. Completely dimensioned drawings are provided at the beginning of each tutorial so that the advanced student, or an instructor led class, can complete them without going through the step-by-

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Design & Make It! 9Key Stage 3 Assessment Resources : Product DesignNelson Thornes

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This title uses a holistic approach to examine the diverse issues that managers face to channel resources in the right direction for commercial success. It details the commercialization of innovation and new products in fast-paced, high-tech markets and how to match technological advances to new market opportunities.

ASP.NET 4 is the latest version of Microsoft's revolutionary web technology. It is the principal technology for creating dynamic web pages on the Windows platform. Applied ASP.NET 4 In Context sets the standard for clear, simple, hands-on advice for learning and deploying Microsoft's dynamic web solutions. Seasoned .NET author Adam Freeman explains how to get the most from ASP.NET by focusing on the features you need for your project. He starts with the nuts and bolts and shows you everything through to advanced features, going in-depth to give you the knowledge you need to use ASP.NET in a real-world context. Effective and powerful ASP.NET programming is easier than ever before with this informed and practical guide.

There is an ever-growing need for better project management within the disciplines of engineering, business and technology and this new edition is a direct response to that need. By emphasizing practical applications, this book targets the ultimate purpose of project management; to unify and integrate the interests, resources and work efforts of many stakeholders to accomplish the overall project goal. The book encompasses the essential background material, from philosophy to methodology, that is required, before dedicating itself to presenting concepts and techniques of practical application on topics including: Project initiation and proposals Scope and task definition Scheduling Budgeting Risk analysis The new edition has been updated to provide closer alignment with PMBOK terms and definitions for more ease of use alongside PMI qualifications and covers the latest developments in project management methodologies. Supplemented by brand new case studies from engineering and technology projects, as well as improved instructor support materials, this text is an ideal resource and reference for anyone studying or practicing project management within engineering or business environments.

This book is primarily a Microsoft Project book and designed to teach project management professionals, who understand the PRINCE2™ methodology, to use Microsoft(r) Project to plan and control PRINCE2™ projects. It identifies which PRINCE2™ processes may be handled with Microsoft Project(r) 2010 and how the software may be effectively used to assist in managing a project. Paul Harris' manual unlocks the power and versatility of Microsoft(r) Project with a logical presentation of the tool in the context of a PRINCE2 project scenario. Adobe Captivate 4: The Definitive Guide, the follow-up to Wordware's popular Adobe Captivate 3: The Definitive Guide, steps you through all the procedures needed to create Flash movies based on any software on your desktop. You'll learn how to create Flash movies, edit individual screens, add and edit sound, even add interactivity (with or without grading) for complete customization. The expanded e-learning chapter in this edition discusses a variety of ways to build quizzing functions with individual questions and question pools. A chapter on

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branching shows how to move slide elements on a visual display, and how to create paths through a movie that give each viewer a unique experience. This book covers everything from getting the software installed and activated, manipulating the movie files, adding and editing audio, and building quizzes, all the way to delivery mechanisms of the final output and integrating your movies with other applications. TRB's National Cooperative Highway Research Program (NCHRP) Report 719: Calibration of Rutting Models for Structural and Mix Design highlights proposed revisions to the Mechanistic–Empirical Pavement Design Guide (MEPDG) and software to incorporate three alternative rut-depth prediction models that rely on repeated load (triaxial) permanent deformation or constant height testing to provide the requisite input data.

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