

## Creo 2 Ptc De

Providing a step-by-step guide for the implementation of virtual manufacturing using Creo Parametric software (formerly known as Pro-Engineer), this book creates an engaging and interactive learning experience for manufacturing engineering students.

Featuring graphic illustrations of simulation processes and operations, and written in accessible English to promote user-friendliness, the book covers key topics in the field including: the engraving machining process, face milling, profile milling, surface milling, volume rough milling, expert machining, electric discharge machining (EDM), and area turning using the lathe machining process. Maximising reader insights into how to simulate material removal processes, and how to generate cutter location data and G-codes data, this valuable resource equips undergraduate, postgraduate, BTEch and HND students in the fields of manufacturing engineering, computer aided design (CAD) and computer aided engineering (CAE) with transferable skills and knowledge. This book is also intended for technicians, technologists and engineers new to Creo Parametric software.

PTC Creo Parametric 5.0 is one of the most widely used CAD/CAM software programs in the world today. Any aspiring engineer will greatly benefit from the knowledge contained herein, while in school or upon graduation as a newly employed engineer. Significant changes, upgrades, and new capabilities including have made PTC Creo Parametric 5.0 a unique product. This is not a revised textbook but a new book covering all the necessary subjects needed to master this high-level CAD software. There are few if any comprehensive texts on this subject so we hope this text will fill the needs of both schools and professionals alike. The text involves creating a new part, an assembly, or a drawing, using a set of commands that walk you through the process systematically. Lessons and Projects all come from industry and have been tested for accuracy and correctness as per engineering standards. Projects are downloadable as a PDF with live links and 3D embedded models. Visit: [cad-resources.com](http://cad-resources.com)

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 product and 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, Third 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: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third 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.

Learn how to use PTC® Mathcad Prime® 3.0, one of the world's leading tools for technical computing, in the context of engineering, science, and math applications. Quickly harness the power of PTC Mathcad Prime 3.0 to solve both simple and complex problems. Essential PTC® Mathcad Prime® 3.0 is perfect for college students, first-time users, and experienced Mathcad 15 users who are moving to PTC Mathcad Prime 3.0. Updated from Maxfield's popular Essential Mathcad, this book introduces the most powerful functions and features of the new PTC Mathcad Prime 3.0 software and teaches how to apply them to create comprehensive calculations for any quantitative subject. Examples from several fields demonstrate the power and utility of PTC Mathcad's tools while also demonstrating how users can effectively incorporate Microsoft® Excel spreadsheets into the software. Learn the basics faster: Chapter 1 introduces many fundamentals of Mathcad, allowing the reader to begin using the program in less time. Learn PTC Mathcad tools in context: Incorporates many applied examples and problems from a wide variety of disciplines. Thorough discussion of many PTC Mathcad tools: Units, arrays, plotting, solving, symbolic calculations, programming, algebra, calculus, differential equations, reading from files, writing to files, and incorporating MS Excel spreadsheets. Includes a link to PTC with instructions on how to purchase the PTC® Mathcad Prime® 3.0 Student Edition (The Student Edition software is intended for educational purposes only.)

En el año 2014 tuvo lugar el vigesimosegundo Congreso Universitario de Innovación Educativa en las Enseñanzas Técnicas (XXII CUIEET), impulsado por la Conferencia de Directores. En esta ocasión, esta edición del CUIEET se celebró en Almadén durante los días 17 a 19 de septiembre de 2014. El CUIEET es un foro de intercambio de experiencias y difusión de las últimas innovaciones en el campo de la investigación educativa. Este congreso se creó con el fin de mejorar la formación en las Ingenierías de la Rama Industrial y así facilitar la incorporación al mundo laboral de sus titulados. La publicación de los resultados del congreso se han editado en tres volúmenes, quedando sus áreas temáticas repartidas de la siguiente manera: Volumen I Temática 1. Calidad y Acreditación Temática 2. Desarrollo y Evaluación de competencias trasversales Temática 3. Diseño y Competitividad Temática 4. Globalización de las enseñanzas técnicas Temática 5. Implantación y desarrollo de las nuevas titulaciones de Ingeniería Volumen II Temática 6. Innovación Educativa Volumen III Temática 7. Intercambio científico, tecnológico y formación con Iberoamérica Temática 8. Universidad - Empresa Temática 9. Nuevas Fronteras en la Enseñanza-Aprendizaje de Ingeniería de Fabricación y Tecnologías de Procesado de Materiales

This book gathers the papers presented at the XXIX International Congress INGEGRAF "The digital transformation in graphic engineering," which was held in Logroño, Spain on June 20–21, 2019. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and design and modeling for nautical, engineering and construction, aeronautics and aerospace contexts. The book is divided into six main sections, reflecting the focus and primary themes of the conference. The contributions presented here will not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support them in their daily work, but will also stimulate new research directions, advanced applications of the methods discussed, and future interdisciplinary collaborations.

The purpose of Creo Parametric 4.0 Advanced Tutorial is to introduce you to some of the more advanced features, commands, and functions in Creo Parametric. Each lesson concentrates on a few of the major topics and the text attempts to explain the "why's" of the commands in addition to a concise step-by-step description of new command sequences. This book is suitable for

a second course in Creo Parametric and for users who understand the features already covered in Roger Toogood's *Creo Parametric Tutorial*. The style and approach of the previous tutorial have been maintained from the previous book and the text picks up right where the last tutorial left off. The material covered in this tutorial represents an overview of what is felt to be the most commonly used and important functions. These include customization of the working environment, advanced feature creation (sweeps, round sets, draft and tweaks, UDF's, patterns and family tables), layers, Pro/PROGRAM, and advanced drawing and assembly functions. *Creo Parametric 4.0 Advanced Tutorial* consists of eight lessons. A continuing theme throughout the lessons is the creation of parts for a medium-sized modeling project. The project consists of a small three-wheeled utility cart. Project parts are given at the end of each lesson that utilize functions presented earlier in that lesson. Final assembly is performed in the last lesson.

*Creo Parametric 5.0 for Designers* book is written to help the readers effectively use the modeling and assembly tools by utilizing the parametric approach of *Creo Parametric 5.0* effectively. This book provides a detailed description of the tools that are commonly used in modeling, assembly, sheetmetal as well as in mold design. This book also covers the latest surfacing techniques like *Freestyle* and *Style* with the help of relevant examples and illustrations. The *Creo Parametric 5.0 for Designers* book further elaborates on the procedure of generating the drawings of a model or assembly, which are used for documentation of a model or assembly. Also, it includes the concepts of geometric dimensioning and tolerancing. The examples and tutorials used in this book ensure that the users can relate the knowledge gained through this book with the actual mechanical industry designs. Every chapter begins with a tool section that provides a brief information of the *Creo Parametric* tools. This approach allows the user to use this book initially as a learning tool and then as a reference material. *Salient Features* Consists of 17 chapters that are organized in a pedagogical sequence. Comprehensive coverage of *Creo Parametric 5.0* concepts and techniques. Tutorial approach to explain the concepts of *Creo Parametric 5.0*. Detailed explanation of all commands and tools. Summarized content on the first page of the topics that are covered in the chapter. Hundreds of illustrations for easy understanding of concepts. Step-by-step instructions to guide the users through the learning process. More than 40 real-world mechanical engineering designs as tutorials, 40 as exercises, and projects with step-by-step explanation. Additional information throughout the book in the form of notes and tips. Self-Evaluation Tests and Review Questions at the end of the chapters to help the users assess their knowledge. Additional learning resources at '<http://allaboutcadcam.blogspot.com>'

Table of Contents Chapter 1: Introduction to *Creo Parametric 5.0* Chapter 2: Creating Sketches in the Sketch Mode-I Chapter 3: Creating Sketches in the Sketch Mode-II Chapter 4: Creating Base Features Chapter 5: Datums Chapter 6: Options Aiding Construction of Parts-I Chapter 7: Options Aiding Construction of Parts-II Chapter 8: Options Aiding Construction of Parts-III Chapter 9: Advanced Modeling Tools Chapter 10: Assembly Modeling Chapter 11: Generating, Editing, and Modifying the Drawing Views Chapter 12: Dimensioning the Drawing Views Chapter 13: Other Drawing Options Chapter 14: Working with Sheetmetal Components Chapter 15: Surface Modeling (For free download) Chapter 16: Introduction to Mold Design (For free download) Chapter 17: Concepts of Geometric Dimensioning and Tolerancing (For free download) Index

This volume constitutes the refereed proceedings of the Second International Conference on Applied Technologies, ICAT 2020, held in Quito, Ecuador, in December 2020. Due to the COVID-19 pandemic the conference was held online. The 53 papers were carefully reviewed and selected from 145 submissions. The papers are organized according to the following topics: communication; computing; e-government and e-participation; e-learning; electronics; intelligent systems; machine vision; security; technology trends.

The primary goal of *Parametric Modeling with Creo Parametric 5.0* is to introduce the aspects of Solid Modeling and Parametric Modeling. This text is intended to be used as a training guide for any student or professional wanting to learn to use *Creo Parametric*. This text covers *Creo Parametric* and the lessons proceed in a pedagogical fashion to guide you from constructing basic shapes to building intelligent solid models and creating multi-view drawings. This text takes a hands-on, exercise-intensive approach to all the important Parametric Modeling techniques and concepts. This textbook contains a series of eleven tutorial style lessons designed to introduce beginning CAD users to *Creo Parametric*. The basic premise of this book is that the more designs you create using *Creo Parametric*, the better you learn the software. With this in mind, each lesson introduces a new set of commands and concepts, building on previous lessons. This book will provide you with a good basis for exploring and growing in the exciting field of Computer Aided Engineering. This book also introduces you to the general principles of 3D printing including a brief history of 3D printing, the types of 3D printing technologies, commonly used filaments, and the basic procedure for printing a 3D model. 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs.

This the color version of Part 2 Lessons 9-12 of the book. PTC *Creo Parametric 5.0* is one of the most widely used CAD/CAM software programs in the world today. Any aspiring engineer will greatly benefit from the knowledge contained herein, while in school or upon graduation as a newly employed engineer. Significant changes, upgrades, and new capabilities including have made PTC *Creo Parametric 5.0* a unique product. This is not a revised textbook but a new book covering all the necessary subjects needed to master this high-level CAD software. There are few if any comprehensive texts on this subject so we hope this text will fill the needs of both schools and professionals alike. The text involves creating a new part, an assembly, or a drawing, using a set of commands that walk you through the process systematically. Lessons and Projects all come from industry and have been tested for accuracy and correctness as per engineering standards. Projects are downloadable as a PDF with live links and 3D embedded models.

This book discusses challenges and solutions for the required information processing and management within the context of multi-disciplinary engineering of production systems. The authors consider methods, architectures, and technologies applicable in use cases according to the viewpoints of product engineering and production system engineering, and regarding the triangle of (1) product to be produced by a (2) production process executed on (3) a production system resource. With this book industrial production systems engineering researchers will get a better understanding of the challenges and requirements of multi-disciplinary engineering that will guide them in future research and development activities. Engineers and managers from engineering domains will be able to get a better understanding of the benefits and limitations of applicable methods, architectures, and technologies for selected use cases. IT researchers will be enabled to identify research issues related to the development of new methods, architectures, and technologies for multi-disciplinary engineering, pushing forward the current state of the art.

This the color version of Part 3 Lessons 13-22 of the book. PTC *Creo Parametric 5.0* is one of the most widely used CAD/CAM



compromiso social" "En la red está tu oportunidad" es un "Libro-Blog" con aspectos autobiográficos, sencillo, fácil de leer y vinculado al Blog [www.enlaredestatuoportunidad.com](http://www.enlaredestatuoportunidad.com) a través de los códigos QR. Cada código QR te vinculará al material multimedia alojado en mi sitio web, de esta forma, será más sencillo seguir los temas tratados. Esta tecnología consigue que este libro no se convierta en una edición extemporánea, me permitirá actualizar constantemente sus contenidos y así estar actualizado de continuo. Es una guía basada en algunas de las más populares aplicaciones que existen en Internet; aplicaciones que nos permitirán construir, con cierta facilidad, nuestro propio entorno virtual. Un entorno con la vista puesta en elaborar nuestra propia "Identidad Digital". Desde la elaboración de un blog, la programación de los códigos QR, la integración de mapas geolocalizados para obtener "callejeros virtuales", hasta los primeros pasos para trabajar en la denominada "nube", son algunos de los capítulos que centrarán esta publicación, a su vez, podrás seguir las actualizaciones que efectúe en el blog. Intenta a su vez, poner en valor las enormes posibilidades que se abren con la correcta utilización de las Nuevas Tecnologías, en el ámbito de la Sociedad del Conocimiento y de la Información. Anímate y sumérgete en el mundo del comercio electrónico, en el de las aplicaciones móviles, en el de los mapas virtuales, etc.. En definitiva, una guía imprescindible para aquellas personas que quieren estar presentes en Internet y no saben por dónde empezar y sin perder nunca de vista... que en la red está tu oportunidad.

Dieses Arbeitsbuch ist als Grundkurs Creo Parametric für Maschinenbauer konzipiert und eignet sich sehr gut für ein Selbststudium. Creo Parametric ist eine professionelle 3D-CAD Software zur Konstruktion von Bauteilen und Baugruppen. Die aktuelle Auflage basiert auf Creo 3.0 und enthält am Anfang eines jeden Kapitels gern gemachte "Anfängerfehler", die damit vermieden werden sollen. Am Ende der kleinen Lerneinheiten steht immer ein CAD-Ergebnisbild, so dass der Lernerfolg direkt kontrolliert werden kann. Das Buch ist auch für Quereinsteiger und Umschüler bestens geeignet?. Weiteres Zusatzmaterial können Sie auf der Verlagshomepage beim Buch herunterladen.

Designed in direct consultation with PTC to work hand-in-hand with the latest release of PTC Creo software (formerly known as Pro/ENGINEER), PTC CREOTM PARAMETRIC 3.0 provides step-by-step instructions to help readers understand the uses, assets, attributes, and new capabilities of the redesigned software. This user-friendly guide is the first book on the market on PTC Creo 3.0 and provides all the information, screen shots, and detailed illustrations necessary for effective use of the software as an engineering design tool. The book is enhanced by a free companion website featuring online lessons, online lectures, and a link to the free downloadable PTC Creo Student Edition software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Creo Parametric 6.0 for Designers book is written to help the readers effectively use the modeling and assembly tools by utilizing the parametric approach of Creo Parametric 6.0 effectively. This book provides detailed description of the tools that are commonly used in modeling, assembly, sheetmetal as well as in mold. This book also covers the latest surfacing techniques like Freestyle and Style with the help of relevant examples and illustrations. The Creo Parametric 6.0 for Designers book further elaborates on the procedure of generating the drawings of a model or assembly, which are used for documentation of a model or assembly. It also includes the concept of Geometric Dimensioning and tolerancing. The examples and tutorials given in this book relate to actual mechanical industry designs. Salient Features: Comprehensive coverage of Creo Parametric 6.0 concepts and techniques. Tutorial approach to explain the concepts of Creo Parametric 6.0. Detailed explanation of all commands and tools. Summarized content on the first page of the topics that are covered in the chapter. Hundreds of illustrations for easy understanding of concepts. Step-by-step instructions, notes and tips, hundreds of illustrations for easy understanding of concepts. Real-world mechanical engineering designs as tutorials and exercises. Additional information throughout the book in the form of notes and tips. Self-Evaluation Tests and Review Questions at the end of the chapters to help the users assess their knowledge. Additional learning resources at 'allaboutcadcam.blogspot.com'. Table of Contents Chapter 1: Introduction to Creo Parametric 6.0 Chapter 2: Creating Sketches in the Sketch Mode-I Chapter 3: Creating Sketches in the Sketch Mode-II Chapter 4: Creating Base Features Chapter 5: Datums Chapter 6: Options Aiding Construction of Parts-I Chapter 7: Options Aiding Construction of Parts-II Chapter 8: Options Aiding Construction of Parts-III Chapter 9: Advanced Modeling Tools Chapter 10: Assembly Modeling Chapter 11: Generating, Editing, and Modifying the Drawing Views Chapter 12: Dimensioning the Drawing Views Chapter 13: Other Drawing Options Chapter 14: Working with Sheetmetal Components \* Chapter 15: Surface Modeling \* Chapter 16: Introduction to Mold Design \* Chapter 17: Concepts of Geometric Dimensioning and Tolerancing \* Index

This the color version of Part 2 of the book. PTC Creo Parametric 4.0 is one of the most widely used CAD/CAM software programs in the world today. Any aspiring engineer will greatly benefit from the knowledge contained herein, while in school or upon graduation as a newly employed engineer. Significant changes, upgrades, and new capabilities including have made PTC Creo Parametric 4.0 a unique product. This is not a revised textbook but a new book covering all the necessary subjects needed to master this high-level CAD software. There are few if any comprehensive texts on this subject so we hope this text will fill the needs of both schools and professionals alike. The text involves creating a new part, an assembly, or a drawing, using a set of commands that walk you through the process systematically. Lessons and Projects all come from industry and have been tested for accuracy and correctness as per engineering standards. Projects are downloadable as a PDF with live links and 3D embedded models.

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Dieses Lehr- und Übungsbuch gibt eine anschauliche strukturierte Einführung in die parametrische 3D-Konstruktion und die darauf aufbauenden fortgeschrittenen Arbeitstechniken. Neben notwendigen anwendungsspezifischen Voreinstellungen und Festlegungen wird in die Bauteil- und Baugruppenmodellierung wie die damit verbundene Ableitung von technischen Zeichnungen eingeführt. Darüber hinaus werden fortgeschrittene Modellierungstechniken behandelt. In allen Abschnitten stehen die praktischen Übungen mit geeigneten Konstruktionsbeispielen im Vordergrund.

PTC Creo Parametric 4.0 Part 2 (Lessons 13-22) Full Color Version Createspace Independent Publishing Platform

The eleven lessons in this tutorial introduce you to the design capabilities of Creo Parametric 7.0. The tutorial covers the major concepts and frequently used commands required to advance from a novice to an intermediate user level. Major topics include part and assembly creation, and creation of engineering drawings. Also illustrated are the major functions that make Creo Parametric a parametric solid modeler.

Although the commands are presented in a click-by-click manner, an effort has been made, in addition to showing/illustrating the command usage, to explain why certain commands are being used and the relation of feature selection and construction to the overall part design philosophy. Simply knowing where commands can be found is only half the battle. As is pointed out numerous times in the text, creating useful and effective models of parts and assemblies requires advance planning and forethought. Moreover, since error recovery is an important skill, considerable time is spent exploring the created models. In fact, some errors are intentionally induced so that users will become comfortable with the "debugging" phase of model creation. At the end of each lesson is a short quiz reviewing the new topics covered in that chapter. Following the quiz are several simple "exercise" parts that can be created using new commands taught in that lesson. In addition to these an ongoing project throughout the book is also included. This project consists of several parts that are introduced with the early lessons and finally assembled at the end. Who this book is for This book has been written specifically with students in mind. Typically, students enter their first CAD course with a broad range of abilities both in spatial visualization and computer skills. The approach taken here is meant to allow accessibility to persons of all levels. These lessons, therefore, were written for new users with no previous experience with CAD, although some familiarity with computers is assumed.

CREO PARAMETRIC, designed in direct consultation with PTC, acts as a user friendly guide to the Creo Parametric program, formerly known as Pro/ENGINEER. The text walks the reader through the software, helping them to gain a better understanding of Creo Parametric, its assets, and uses. Step by step instructions are provided for utilizing the new capabilities and attributes of the redesigned software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Congreso Nacional de Ingeniería Mecánica se realiza bianualmente promovido por la Asociación Española de Ingeniería Mecánica, AEIM. En su XXI edición, este Congreso está organizado por el Grupo de Ingeniería Mecánica Aplicada (AME) del Departamento de Ingeniería Mecánica y Energía de la Universidad Miguel Hernández. Y se ha celebrado en la ciudad de Elche (Alicante-España). El Congreso Nacional de Ingeniería Mecánica es el principal lugar de encuentro para el intercambio de conocimiento científico y técnico, de experiencias profesionales y de proyectos competitivos en el campo de la Ingeniería Mecánica a nivel nacional. Los artículos presentados se organizan en 18 áreas temáticas. El libro está organizado por tanto en capítulos por áreas temáticas. Se han presentado 224 comunicaciones científicas de gran nivel que muestran el buen hacer de los investigadores en Ingeniería Mecánica.

CREOTM PARAMETRIC 2.0 was designed in direct consultation with PTC to go hand in hand with the latest release of CreoTM Elements/Pro software, formerly known as Pro/ENGINEER. The text acts as a user friendly guide to the program walking the reader through the software and helping them to gain a better understanding of CreoTM Parametric, its assets, and uses. Step by step instructions are provided for utilizing the new capabilities and attributes of the redesigned software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This the color version of Part 1A of the book. PTC Creo Parametric 4.0 is one of the most widely used CAD/CAM software programs in the world today. Any aspiring engineer will greatly benefit from the knowledge contained herein, while in school or upon graduation as a newly employed engineer. Significant changes, upgrades, and new capabilities including have made PTC Creo Parametric 4.0 a unique product. This is not a revised textbook but a new book covering all the necessary subjects needed to master this high-level CAD software. There are few if any comprehensive texts on this subject so we hope this text will fill the needs of both schools and professionals alike. The text involves creating a new part, an assembly, or a drawing, using a set of commands that walk you through the process systematically.

Lessons and Projects all come from industry and have been tested for accuracy and correctness as per engineering standards. Projects are downloadable as a PDF with live links and 3D embedded models.

Selbst Großunternehmen sind heute kaum mehr in der Lage, alle für Innovationen benötigten Kompetenzen vorzuhalten oder selbst zu entwickeln. Neuerungen entstehen heute oft über Wertschöpfungsstufen hinweg. Diese "Innovation 4.0" erfordert ein bisher nicht gekanntes Maß an strategischer und an technologischer Integration. Entsprechend muss das Innovationsmanagement die Vernetzung aller betrieblichen Innovationsfelder - Strategie, Geschäftsmodelle, Technologie, Prozesse und Organisation, aber auch Kommunikation und Kultur - vorantreiben, um sich einen kompetitiven Vorsprung zu sichern. Im Band sind die Beiträge einschlägiger Fach- und Führungskräfte aus industriellen F&E-Bereichen sowie ausgewiesener Wissenschaftler versammelt, um den für die Reihe typischen Mix aus Theorie und Praxis(-konzepten) zu gewährleisten.

O livro 101 Conceitos de Arquitetura e Urbanismo na Era Digital é uma coleção exemplar de verbetes, escrita e organizada por professores e pesquisadores que são conhecedores das novas tecnologias e conectados com a realidade da academia e do mercado, no Brasil e na América Latina. Como se trata de um guia de referência único em língua portuguesa, acreditamos que ele tem tudo para ser uma indicação "obrigatória" por professores de disciplinas ligadas à tecnologia nas escolas técnicas e faculdades de Arquitetura e Engenharia em todo o país. Texto da

Contracapa: "Se o final do século passado ficou marcado pela incorporação da prancheta eletrônica nos ambientes de projeto com a utilização dos programas de CAD, percebe-se, nos dias de hoje, uma maior exploração da tecnologia CAM, a propagação da plataforma BIM, bem como dos recursos CAE e o uso de máquinas CNC, equipamentos controlados por computador, nos meios de produção e concepção arquitetônica. Portanto, há uma mudança não somente do desenho arquitetônico, mas sim uma inovação no próprio processo de projetar. O franco desenvolvimento da lógica CAAD (computer-aided architectural design ou projeto arquitetônico auxiliado por computador) vem revolucionando a tarefa de pensar, projetar e produzir arquitetura. Diante de tais circunstâncias, somos chamados a "reinventar o desenvolvimento urbano e repensar o papel da arquitetura" MITCHELL, 2002, p.28), pois "não temos escolha; na realidade, não podemos optar"; estamos na era digital!"

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