



This textbook explains how to create solid models, assemblies and drawings using Siemens NX 8.5. NX is a three dimensional CAD/CAM/CAE software developed by Siemens PLM Software Inc., Germany. This textbook is based on NX 8.5. Users of earlier releases can use this book with minor modifications. We provide files for exercises via our website. All files are in NX 6.0 so readers can open the files using NX 6.0 and later releases. It is assumed that readers of this textbook have no prior experience in using Siemens NX for modeling 3D parts. This textbook is suitable for anyone interested in learning 3D modeling using Siemens NX. Each chapter deals with the major functions of creating 3D features using simple examples and step by step, self-paced exercises. Additional drawings of 3D parts are provided at the end of each chapter for further self exercises. The final exercises are expected to be completed by readers who have fully understood the content and completed the exercises in each chapter. Topics covered in this textbook - Chapter 1: Basic components of Siemens NX 8.5, options and mouse operations. - Chapter 2: Basic step by step modeling process of NX 8.5. - Chapter 3 and 4: Creating sketches and sketch based features. - Chapter 5: Usage of datums to create complex 3D geometry. - Chapter 6: Additional modeling commands such as fillet, chamfer, draft and shell. - Chapter 7: Modification of 3D parts to take advantage of parametric modeling concepts. - Chapter 8: Copying features, modeling objects and bodies. - Chapter 9: Additional modeling commands such as trim body, tube, sweep along guide, emboss and various commands in synchronous modeling. - Chapter 10: Advanced sketch commands. - Chapter 11: Measuring and verifying 3D geometries. - Chapter 12 and 13: Constructing assembly structures and creating or modifying 3D parts in the context of assembly. - Chapter 14 and 15: Creating drawings for parts or assemblies.

Environmental pollution by man-made persistent organic chemicals (POCs) has been a serious global issue for over half a century. POCs are prevalent in air, water, soil, and organisms including wildlife and humans throughout the world. They do not degrade and cause long-term effect in organisms. Exposure to certain POCs may result in serious environmental and health effects including birth defects, diminished intelligence and certain types of cancers. Therefore, POCs have been the subject of an intensive regional, national and international effort to limit their production, use, and disposal of these chemical stocks. Trend monitoring studies are essential to make clear the behavior and fate of these compounds and to protect our environment and living resources. Global Contamination Trends of Persistent Organic Chemicals provides comprehensive coverage of spatial and temporal trends of classical and emerging contaminants in aquatic, terrestrial, and marine ecosystems, including the Arctic and Antarctic ecosystems. Compiled by an international group of experts, this volume covers: Spatial and temporal trends of polychlorinated biphenyls (PCBs), chlorinated pesticides, polychlorinated naphthalenes (PCNs), polychlorinated dibenzo-p-dioxins/furans (PCDD/Fs), polybrominated diphenyl ethers (PBDEs), hexabromocyclododecanes (HBCDs), perfluorinated compounds (PFCs), synthetic musks, polynuclear aromatic hydrocarbons (PAHs), and octyl- and nonylphenols. Environmental and biological matrices used for the trend studies were atmosphere, water, soil, sediment, bivalve mollusks, fish, marine mammals, terrestrial mammals, and human breast milk. Spatial and temporal trend studies presented from Australia, Brazil, China, Estonia, Ghana, Hong Kong, India, Italy, Japan, Korea, Norway, Poland, Sweden, the United States, coastal and open ocean environments, and the Arctic and Antarctic regions. POCs have been the subject of an intensive regional, national, and international effort to limit their production and use, and to mitigate the disposal of these chemicals. Since POCs are prevalent in air, water, soil, and tissues of organisms (including wildlife and humans) throughout the world and do not degrade, they cause long-term effects in organisms. Trend monitoring studies are essential to make clear the behavior and fate of these compounds and to protect our environment and living resources. Relevant to professionals and students alike, Global Contamination Trends of Persistent Organic Chemicals facilitates the understanding of environmental and biological behavior of these chemicals and the development of strategies for protecting the global environment for future generations.

Basic to Advanced NX12 Modeling, Drafting and Assemblies is the newly revised version of our previous CAD training textbooks. We have greatly expanded the content, detail, and exercises included in this edition. Topics include: Synchronous and Master Modeling; Fundamental and Intermediate Curves; Editing Entities; Design, Reference, Surface and Detail Features; Sheet Metal Features; True Studio Task; and Injection-Molded Parts and Castings. Using NX12 is like playing a piano. In the same way that chords are as important as individual notes, NX commands are far more powerful when used in concert with others. Our book makes an effort to show not only the details of the most important commands, but the powerful combinations that we have used to bring about excellent designs. This manual teaches you the modeling, assemblies, and drafting functionality including all the latest and greatest tools found only in NX12.

Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data. Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30 countries making it an accepted industry standard guide. Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use.

Siemens NX 2019 for Designers, 12th Edition

Siemens Nx 10 Surface Design

Regulations and Quality

NX for Beginners

Volume 1 - Mechanical Engineering: Research and Technology Innovations, Industry 4.0

NX 12 Tutorial