



# STEP: Standard for the Exchange of Product model data

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# Step Standard For The Exchange Of Product Model Data The Grand Experience

**United States. Congress. House.  
Committee on Science. Subcommittee  
on Technology**

## **Step Standard For The Exchange Of Product Model Data The Grand Experience:**

**Step (Standard for the Exchange of Product Model Data)** Sharon J. Kemmerer,2000-09-01 This document is the result of a comprehensive effort by the Nat Inst of Standards and Tech NIST to document the development of STEP Standard for the Exchange of Product model data Although the text focuses on the role of NIST in the STEP effort it also describes the role and efforts of the many types of partners that have worked with NIST to make STEP happen Also examines a possible path for NIST to take in determining its future involvement with STEP or other similar standards This document also informs the reader about the importance of standards in facilitating the ability of companies to manufacture and use their products

Illustrated **Data-Exchange Standards and International Organizations: Adoption and Diffusion** Thomas, Josephine Wapakabulo,2009-09-30 This book seeks to establish the factors and barriers critical to the adoption of data exchange standards and ways to accelerate the adoption of these standards Provided by publisher *Journal of Research of the*

*National Institute of Standards and Technology* ,2001 Global Engineering, Manufacturing and Enterprise Networks John P.T. Mo,Laszlo Nemes,2013-06-29 The availability of effective global communication facilities in the last decade has changed the business goals of many manufacturing enterprises They need to remain competitive by developing products and processes which are specific to individual requirements completely packaged and manufactured globally Networks of enterprises are formed to operate across time and space with world wide distributed functions such as manufacturing sales customer support engineering quality assurance supply chain management and so on Research and technology development need to address architectures methodologies models and tools supporting intra and inter enterprise operation and management Throughout the life cycle of products and enterprises there is the requirement to transform information sourced from globally distributed offices and partners into knowledge for decision and action Building on the success of previous DrrSM conferences Tokyo 1993 Eindhoven 1996 Fort Worth 1998 the fourth International Conference on Design of Information Infrastructure Systems for Manufacturing DrrSM 2000 aims to Establish and manage the dynamics of virtual enterprises define the information system requirements and develop solutions Develop and deploy information management in multi cultural systems with universal applicability of the proposed architecture and solutions Develop enterprise integration architectures methodologies and information infrastructure support for reconfigurable enterprises Explore information transformation into knowledge for decision and action by machine and skilful people These objectives reflect changes of the business processes due to advancements of information and communication technologies ICT in the last couple of years **E-commerce** United States. Congress. House. Committee on Science. Subcommittee on Technology,2000

New Applications in IT Standards: Developments and Progress Jakobs, Kai,2010-01-31 Provides essential research on developing teaching and implementing standards in global organizations and institutions **Information Modeling for Interoperable Dimensional Metrology** Y Zhao,T Kramer,Robert Brown,Xun Xu,2011-08-28 Dimensional metrology is an

essential part of modern manufacturing technologies but the basic theories and measurement methods are no longer sufficient for today's digitized systems. The information exchange between the software components of a dimensional metrology system not only costs a great deal of money but also causes the entire system to lose data integrity. Information Modeling for Interoperable Dimensional Metrology analyzes interoperability issues in dimensional metrology systems and describes information modeling techniques. It discusses new approaches and data models for solving interoperability problems as well as introducing process activities existing and emerging data models and the key technologies of dimensional metrology systems. Written for researchers in industry and academia as well as advanced undergraduate and postgraduate students, this book gives both an overview and an in-depth understanding of complete dimensional metrology systems. By covering in detail the theory and main content techniques and methods used in dimensional metrology systems, Information Modeling for Interoperable Dimensional Metrology enables readers to solve real-world dimensional measurement problems in modern dimensional metrology practices.

**Proceedings of the ... ASME Design Engineering Technical Conferences**, 2007     *EuSEC 2000* Herbert Negele, 2000     **Collaborative Design and Planning for Digital Manufacturing** Lihui Wang, Andrew Yeh Ching Nee, 2009-01-27 Collaborative design has attracted much attention in the research community in recent years. With increasingly decentralized manufacturing systems and processes, more collaborative approaches and systems are needed to support distributed manufacturing operations. Collaborative Design and Planning for Digital Manufacturing presents a focused collection of quality chapters on the state-of-the-art research efforts in the area of collaborative design and planning as well as their practical applications towards digital manufacturing. Collaborative Design and Planning for Digital Manufacturing provides both a broad-based review of the key areas of research in digital manufacturing and an in-depth treatment of particular methodologies and systems from collaborative design to distributed planning, monitoring, and control. Recent development and innovations in this area provide a pool of focused research efforts relevant to a wide readership from academic researchers to practicing engineers.

**Semantic Modeling and Interoperability in Product and Process Engineering** Yongsheng Ma, 2013-06-06 In the past decade, feature-based design and manufacturing has gained some momentum in various engineering domains to represent and reuse semantic patterns with effective applicability. However, the actual scope of feature application is still very limited. Semantic Modeling and Interoperability in Product and Process Engineering provides a systematic solution for the challenging engineering informatics field aiming at the enhancement of sustainable knowledge representation, implementation, and reuse in an open and yet practically manageable scale. This semantic modeling technology supports uniform multi-facet and multi-level collaborative system engineering with heterogeneous computer-aided tools such as CAD/CAM, CAE, and ERP. This presented unified feature model can be applied to product and process representation, development, implementation, and management. Practical case studies and test samples are provided to illustrate applications which can be implemented by the readers in

real world scenarios By expanding on well known feature based design and manufacturing approach Semantic Modeling and Interoperability in Product and Process Engineering provides a valuable reference for researchers practitioners and students from both academia and engineering field Integrating Advanced Computer-Aided Design, Manufacturing, and Numerical Control: Principles and Implementations Xu, Xun,2009-01-31 This book presents basic principles of geometric modelling while featuring contemporary industrial case studies Provided by publisher Advanced Design and Manufacturing Based on STEP Xun Xu,Andrew Yeh Ching Nee,2009-09-29 Design and manufacturing is the essential element in any product development lifecycle Industry vendors and users have been seeking a common language to be used for the entire product development lifecycle that can describe design manufacturing and other data pertaining to the product Many solutions were proposed the most successful being the Standard for Exchange of Product model STEP STEP provides a mechanism that is capable of describing product data independent from any particular system The nature of this description makes it suitable not only for neutral file exchange but also as a basis for implementing sharing and archiving product databases ISO 10303 AP203 is the first and perhaps the most successful AP developed to exchange design data between different CAD systems Going from geometric data as in AP203 to features as in AP224 represents an important step towards having the right type of data in a STEP based CAD CAM system Of particular significance is the publication of STEP NC as an extension of STEP to NC utilising feature based concepts for CNC machining purposes The aim of this book is to provide a snapshot of the recent research outcomes and implementation cases in the field of design and manufacturing where STEP is used as the primary data representation protocol The 20 chapters are contributed by authors from most of the top research teams in the world These research teams are based in national research institutes industries as well as universities SME Technical Paper Society of Manufacturing Engineers,2005 Integrated Process and Fixture Planning Awais Ahmad Khan,Emad Abouel Nasr,Abdulrahman Al-Ahmari,Syed Hammad Mian,2018-05-20 Fixtures are used in manufacturing to secure working devices They help insure conformity accuracy efficiency and interchangeability their reliability is crucial This book introduces and implements a new methodology for more flexible fixture design and manufacturing processes and develops the supporting technologies for automation and fixture planning using object oriented platforms It also presents an integrated solution with Computer Aided Design CAD applications **Construction Supply Chain Management Handbook** William J. O'Brien,Carlos T. Formoso,Vrijhoef Ruben,Kerry London,2008-10-20 Mounting emphasis on construction supply chain management CSCM is due to both global sourcing of materials and a shortage of labor These factors force increasing amounts of value added work to be conducted off site deep in the supply chain Construction Supply Chain Management Handbook compiles in one comprehensive source an overview of the dive *Smart Prosperity* ,2000 **Proceedings of the 14th International Conference on Flexible Automation and Intelligent Manufacturing** Lihui Wang,National Research Council Canada,International Conference on Flexible Automation and Intelligent Manufacturing (14th : 2004 :

Ryerson University), 2004     A Century of Excellence in Measurements, Standards, and Technology David R. Lide, 2001-10-30 Established by Congress in 1901 the National Bureau of Standards NBS now the National Institute of Standards and Technology NIST has a long and distinguished history as the custodian and disseminator of the United States standards of physical measurement Having reached its centennial anniversary the NBS NIST reflects on and celebrates its first century with this book describing some of its seminal contributions to science and technology Within these pages are 102 vignettes that describe some of the Institute's classic publications Each vignette relates the context in which the publication appeared its impact on science technology and the general public and brief details about the lives and work of the authors The groundbreaking works depicted include A breakthrough paper on laser cooling of atoms below the Doppler limit which led to the award of the 1997 Nobel Prize for Physics to William D Phillips The official report on the development of the radio proximity fuse one of the most important new weapons of World War II The 1932 paper reporting the discovery of deuterium in experiments that led to Harold Urey's 1934 Nobel Prize for Chemistry A review of the development of the SEAC the first digital computer to employ stored programs and the first to process images in digital form The first paper demonstrating that parity is not conserved in nuclear physics a result that shattered a fundamental concept of theoretical physics and led to a Nobel Prize for T D Lee and C Y Yang Observation of Bose Einstein Condensation in a Dilute Atomic Vapor a 1995 paper that has already opened vast new areas of research A landmark contribution to the field of protein crystallography by Wlodawer and coworkers on the use of joint x ray and neutron diffraction to determine the structure of proteins     COMPSAC 2001 , 2001 Papers from an October 2001 address such themes as requirements engineering component based development protocols and harmonization quality management software architecture workflow systems and software testing distributed systems UML commercial off the shelf components e learning applicat

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