



### BENEFITS:

SmartPlant Foundation is an engineering information management solution that:

- Enables seamless collaboration across the value chain and between facility information systems.
- Offers accurate, appropriate data for rapid decision support in time-critical situations and helps to manage inconsistencies and reduce errors.
- Provides a high-integrity and secure repository for project and facility information and documentation with auditable traceability.
- Improves quality of engineering and technical data handover from execution into operations.
- Enables users to find information quickly and easily through many different routes (query, drill-down, navigation, full text retrieval) based on the knowledge they have.
- Promotes client and regulator remote review through a portal to minimize plant startup time and ensure continued operations.
- Provides proven Engineering Content Management (EngCM), including document and drawing management and control, list and sheet development, and exchange with suppliers and contractors.
- Provides unparalleled application integration to increase quality while reducing schedule.
- Reduces cost and errors associated with multiple information sources by eliminating the boundaries between them. SmartPlant Foundation is the single source of access to the engineering truth about a plant – its structure, tags, equipment, data, and documents.

## SMARTPLANT® FOUNDATION

### Visualizing Key Information from Complex Data Sources

Information is the basis upon which real-time decisions are made. Engineering information is abundant, dynamic, and complex. Keeping this information current, synchronized, and readily accessible throughout the life cycle is the challenge – whether it is used concurrently by multiple companies during plant design, by engineers during plant construction and commissioning, or by maintenance and operations workers on the plant floor.

SmartPlant® Foundation, the Intergraph® total solution for plant information management, ensures secure access to plant information, including engineering designs, vendor data, purchase orders, RFQs, specification sheets, and all ancillary documents to support the plant life cycle. SmartPlant Foundation enables the user to make rapid and accurate design and operational decisions from large and complex data sets. "Business Intelligence" provides a collection of key performance indicators, reports, and metrics in a contained user experience without the need to learn a complex data mining mechanism.

Powering the Intergraph information management solutions, SmartPlant Foundation is the world's most proven and widely deployed, industry-standard, engineering information management solution in the process, power, and marine industries. SmartPlant Foundation provides a modular set of user experiences based on typical work processes to ensure that valid, consistent, and high-quality engineering data is shared between applications and delivered to users when and where they need it.

### Information Integrity

The engineering design basis needs to be consistent and highly accurate on three fronts:

1. The physical asset information (what is there).
2. Logical and functional information (what was designed to be there).
3. Regulatory and safety imperatives (what is required to be there).

These are the pivotal tenets of engineering integrity.

SmartPlant Foundation is a complementary offering to Intergraph's industry-leading design tools, acting as a data exchange hub between Intergraph Smart™ 3D, SmartPlant P&ID, SmartPlant Instrumentation, SmartPlant Electrical, SmartPlant Materials, and PDS®.

# Smartplant Foundation User Manual

**Joacim Rocklöv**



## Smartplant Foundation User Manual:

**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 Digitalization and Analytics for Smart Plant Performance Frank (Xin X.) Zhu, 2021-04-06 This book addresses the topic of integrated digitization of plants on an objective basis and in a holistic manner by sharing data applying analytics tools and integrating workflows via pertinent examples from industry It begins with an evaluation of current performance management practices and an overview of the need for a Connected Plant via digitalization followed by sections on Connected Assets Improve Reliability and Utilization Connected Processes Optimize Performance and Economic Margin and Connected People Digitalizing the Workforce and Workflows and Developing Ownership and Digital Culture then culminating in a final section entitled Putting All Together Into an Intelligent Digital Twin Platform for Smart Operations and Demonstrated by Application cases

Practical Risk Management for EPC / Design-Build Projects Walter A. Salmon, 2020-02-25 Many of the books on construction risk management concentrate on theoretical approaches to the accurate assessment of the overall risks of taking on a new project Less attention is paid to the typical risks to which the operational level of a project is exposed and how operational managers should approach those risks during project implementation This book identifies precisely where the major EPC Design Build risks occur within an operational framework and shows how best to deal with those risks The book attempts to offer practical advice approaches and tools for dealing with risks to which the various operational departments are exposed *Engineering Document Control, Correspondence and Information Management (Includes Software Selection Guide) for All* Huw R Grossmith, 2023-01-27 The book is the Who What When Where How and very importantly Why of Engineering Document Control with related metadata management and includes a comprehensive software guide and free Access based DC software tool time limited with examples and drills etc *Expert CAD*

*Management* Robert Green, 2007-08-27 Get the strategies you need for successful CAD management in this one of a kind resource You ll learn basics such as how to assign tasks set budgets and formulate ROI and gradually delve into more complex issues such as managing intellectual property selling ideas to management and end users and configuring for specific engineering environments This indispensable resource is packed with savvy insights practical techniques and real world advice to broaden your technical business and management skills

**Computer Software Program for On-line Process Control of Production of Portland-cement Concrete** Steven A. Ragan, Billy D. Neeley, 1997 This report presents the results of a research program to develop a computer software program SmartPlant which could reduce the cost of concrete mixtures and increase construction productivity by minimizing the adverse effects of materials and mixture variations upon construction operations SmartPlant is comprised of five component programs Most attention was given to seeMIX the mixture proportioning program A laboratory evaluation of this program was conducted in which simulated paving structural and mass concrete mixtures were proportioned using current American Concrete Institute ACI proportioning practices and seeMIX technology Two field evaluations of seeMIX were also conducted SeeMAT A the aggregate database program was also evaluated under field conditions on two occasions SeeMAT C the cement database program and seeMAT P the pozzolan database program were evaluated in the laboratory SeeSTAT the statistical database program was not evaluated The results indicated that seeMIX mixture proportioning technology can proportion concrete mixtures having fresh and hardened properties equal to and in some instances superior to current ACI proportioning practices when richer mixtures such as those used in paving or structural applications are being proportioned SeeMIX was less effective in proportioning lean mass concrete mixtures SeeMAT A seeMAT C and seeMAT P performed well and were judged to be useful tools both as components of SmartPlant and as stand alone tools While the individual components of SmartPlant were evaluated numerous logistical and technical problems prevented the evaluation of a fully automated SmartPlant system either in the laboratory or the field

Каталог САПР. Программы и производители Павел Латышев, 2016-06-27

OntoCAPE Wolfgang Marquardt, Jan Morbach, Andreas Wiesner, Aidong Yang, 2009-12-16 Motivation for this Book Ontologies have received increasing attention over the last two decades Their roots can be traced back to the ancient philosophers who were interested in a conceptualization of the world In the more recent past ontologies and ontological engineering have evolved in computer science building on various roots such as logics knowledge representation information modeling and management and knowledge based information systems Most recently largely driven by the next generation internet the so called Semantic Web ontological software engineering has developed into a scientific field of its own which puts particular emphasis on the theoretical foundations of representation and reasoning and on the methods and tools required for building ontology based software applications in diverse domains Though this field is largely dominated by computer science close relationships have been established with its diverse areas of application where searchers are

interested in exploiting the results of ontological software engineering particularly to build large knowledge intensive applications at high productivity and low maintenance effort Consequently a large number of scientific papers and monographs have been published in the very recent past dealing with the theory and practice of ontological software engineering So far the majority of those books are dedicated to the theoretical foundations of ontologies including philosophical treatises and their relationships to established methods in information systems and ontological software engineering

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**Информационно-технологическое и программное обеспечение управления проектом** Вылегжанина А. О.,2015-08-31 **Federal Register** ,2013-06 *The New Gardener's Handbook* Daryl Beyers,2020-02-18 Gardeners just starting out will earn a sense of accomplishment and a good dose of knowledge Booklist Every new gardener has to start somewhere and the process can be intimidating Knowing when and what to plant how to care for the plants once they're in the ground and how to keep pests and diseases away is a lot to take on Luckily Daryl Beyers an expert from the New York Botanical Garden has written what will be a go to resource for decades to come The New Gardener's Handbook is a comprehensive overview of the fundamentals of gardening based on the introductory gardening class that Beyers teaches at NYBG Readers will learn about soil plant selection propagation planting and mulching watering and feeding pruning and weeds pests and diseases The information applies to both ornamental and edible plants Featuring inspiring photography and helpful illustrations The New Gardener's Handbook gives home gardeners a foundation upon which they can grow and encourages them to apply the lessons they've learned in an intuitive natural way **Handbook of Small Modular Nuclear Reactors** Daniel T. Ingersoll,Mario D. Carelli,2020-10-22 Handbook of Small Modular Nuclear Reactors Second Edition is a fully updated comprehensive reference on Small Modular Reactors SMRs which reflects the latest research and technological advances in the field from the last five years Editors Daniel T Ingersoll and Mario D Carelli along with their team of expert contributors combine their wealth of collective experience to update this comprehensive handbook that provides the reader with all required knowledge on SMRs expanding on the rapidly growing interest and development of SMRs around the globe This book begins with an introduction to SMRs for power generation an overview of international developments and an analysis of Integral Pressurized Water Reactors as a popular class of SMRs The second part of the book is dedicated to SMR technologies including physics components I C human system interfaces and safety aspects Part three discusses the implementation of SMRs covering economic factors construction methods hybrid energy systems and licensing considerations The fourth part of the book provides an in depth analysis of SMR R D and deployment of SMRs within eight countries including the United States Republic of Korea Russia China Argentina and Japan This edition includes brand new content on the United Kingdom and Canada where interests in SMRs have increased considerably since the first edition was published The final part of the book adds a new analysis of the global SMR market and concludes with a perspective on SMR

benefits to developing economies This authoritative and practical handbook benefits engineers designers operators and regulators working in nuclear energy as well as academics and graduate students researching nuclear reactor technologies Presents the latest research on SMR technologies and global developments Includes new case study chapters on the United Kingdom and Canada and a chapter on global SMR markets Discusses new technologies such as floating SMRs and molten salt SMRs *Engineering News and American Contract Journal* ,2003 **Official Gazette of the United States Patent and Trademark Office** ,1997 *The CEO's Breakthrough And Vibrant Path* K.N.Krishna Swamy,2023-04-09 THE CEO S BREAKTHROUGH AND VIBRANT PATH by K N Krishna Swamy The Book THE CEO S BREAKTHROUGH AND VIBRANT PATH exclusively designed in the simplest form for achieving Super Profits Super Growth is surely the Rarest Very Unusual E book in the history of 21st Century s Corporate World An exciting daily reference guide for CEO s Entrepreneurs Top Executives Start Up s to Enhance Business Performance by over 300% WITHOUT ANY INVESTMENTS and has the Potential to transform ordinary entrepreneurs into Billion Dollar Business Get Goers The Challenging CEO s will have even the unique opportunity to Build Path breaking and Transformational Visions Missions Innovations Strategies on 360 degrees to drive Businesses beyond Boundaries with this very Un conventional Profit Growth Leadership Guide meaning that the Businesses could be taken towards Building 100 Billion Dollar Entrepreneurship with the Least Possible Investments A book for every CEO Entrepreneur Top Executive Start Up and Women Social Entrepreneur to cherish the great learning process and to get enlightened constantly with the true spirit of entrepreneurial leadership to ultimately achieve the Greatest Possible Business Results Qualitatively in the shortest possible time with Extra ordinary Quality Delivery Continuous Excellence Never Miss this Great Life time Opportunity *Collaborative and Distributed Chemical Engineering. From Understanding to Substantial Design Process Support* Manfred Nagl,Wolfgang Marquardt,2008-07-23 IMPROVE stands for Information Technology Support for Collaborative and Distributed Design Processes in Chemical Engineering and is a large joint project of research institutions at RWTH Aachen University This volume summarizes the results after 9 years of cooperative research work The focus of IMRPOVE is on understanding formalizing evaluating and consequently improving design processes in chemical engineering In particular IMPROVE focuses on conceptual design and basic engineering where the fundamental decisions concerning the design or redesign of a chemical plant are undertaken Design processes are analyzed and evaluated in collaboration with industrial partners *CADmaster №3*, 2013 , **Transformación digital en las empresas - 1ra edición** Arturo Morales Castro,César Aguado Cortés,2022-08-31 Este libro presenta un enfoque integral de las reas funcionales y cada una de las etapas del proceso administrativo de las empresas planeaci n organizaci n direcci n y control a partir del uso de las herramientas de Microsoft Office 365 con el fin de contribuir a transformar las empresas tradicionales a un enfoque totalmente digital Usted podr entender las tendencias de la tecnolog a y aplicaci n de los nuevos sistemas informaticos y digitales en las empresas con Office 365 as como planear organizar dirigir y controlar una empresa Adem s como un

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## Enjoying the Melody of Expression: An Mental Symphony within **Smartplant Foundation User Manual**

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