

Fourth Edition

# Engineering Documentation Control Handbook

Configuration Management and Product Lifecycle Management

Frank B. Watts

*A thoroughly practical guide to the implementation and improvement of Engineering Documentation Control (EDC), Product Lifecycle Management (PLM) and Product Configuration Management (CM).*

Engineering Documentation Control is critical to world-class manufacturing survival. This book provides a practical blueprint for successful and error-free implementation of EDC/CM. Strategically grounded yet retaining a focus on basics, rules and reasons, the practical guidelines can be used in many different industries to make the release of new products and their documentation flow smoothly and easily.

A huge amount of time is wasted in most product manufacturing environments over EDC/CM issues such as interchangeability, document release and change control – resulting in faults, product release delays and overspend. This book is packed with specific methods that can be applied quickly and accurately to almost any industry and any product – to control documentation, request changes to the product, implement changes and develop bills of material.

This new edition places a fresh emphasis on product lifecycle management and CM as engineering's quality control function. The result is a powerful communications bridge between the engineering function and the rest of the world that makes rapid changes in products and documentation possible. With the help of the simple techniques in the handbook, companies can gain and retain their competitive advantage in a world that demands flexibility and quick reflexes – and has no sympathy for delays.

**Frank Watts** has nearly five decades of industrial and consulting experience. Widely recognized for his significant contributions to engineering change control processes, he founded his own company to specialize in configuration management with specific expertise in product release, change control, and bills of material and other engineering documentation control issues.

*"The information contained in this book is essential reading for any configuration management or document control organization. We have begun implementing some of Dr. Watts' processes in our organization and are already reaping great efficiency improvements."*

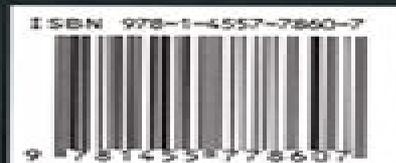
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**Software Configuration Management Handbook** Alexis Leon,2005 This completely revised edition of an Artech House bestseller goes far beyond other SCM books as the only complete guide that integrates SCM principles advanced topics and implementation procedures in one easy access resource The second edition has been greatly expanded with new chapters on documentation control product data management SCM standards and software process improvement models like CMM CMMI BOOTSTRAP ISO SPICE and Trillium Moreover it explores the latest advances in SCM tools tool selection and implementation level of automation needed SCM organization implementation operation and maintenance of the SCM system In addition to the traditional software development models this edition discusses the role of SCM in new software development methodologies such as XP Adaptive Software Development ASD and the Dynamic Systems Development Method DSDM

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**Configuration Management Metrics** Frank B. Watts,2009-08-26

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Improvement provides a comprehensive discussion of measurements for configuration management product lifecycle processes Each chapter outlines one of the most important measures of merit the need for written policy and procedures The best of the best practices as to the optimum standards are listed with an opportunity for the reader to check off those that their company has and those they do not The book first defines the concept of configuration management CM and explains its importance It then discusses the important metrics in the major CM and related processes These include new item release order entry fulfillment request for change bill of material change cost and field change Ancillary processes which may or may not be thought of as part of these major processes are also addressed including deviations service parts publications and field failure reporting Provides detailed guidance on developing and implementing measurement systems and reports Demonstrates methods of graphing and charting data with benchmarks A practical resource for the development of Engineering Documentation Control processes Includes basic principles of Product Lifecycle processes and their measurement

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Configuration Management for Senior Managers Frank B. Watts, 2015-04-21 Configuration Management for Senior Managers is written to help managers in product manufacturing and engineering environments identify the ways in which they can streamline their products and processes through proactive documentation control and product lifecycle management Experienced consultant Frank Watts gives a practitioner s view tailored to the needs of management without the textbook theory that can be hard to translate into real world change Unlike competing books that focus on CM within software and IT environments this engineering focused resource is packed with examples and lessons learned from leading product development and manufacturing companies making it easy to apply the approach to your business Developed to help you identify key policies and practices needing attention in your organization to establish and maintain consistency of processes and products and to reduce operational costs Focused on configuration management CM within manufacturing and engineering settings with relevant examples from leading companies Written by an experienced consultant and practitioner with the knowledge to provide real world insights and solutions not just textbook theory

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observe that  $v + u + 2p + v + v + 2$  and  $p + uu + 2$  yes this is always true and called the schwarz inequality  $14/3 = 2$  here  $xv$

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