

BIBLIOGRAPHY

- Abrahamsson, Pekka, Outi Salo, Jussi Ronkainen and Juhani Warsta. 2002. *Agile Software Development Methods. Review and Analysis*. Espoo, Finland: VTT Publications. ISBN 951-38-6009-4. www.inf.vtt.fi/pdf/. 107 pages.
- Akao, Yoji (Editor). 1990. *Quality Function Deployment: Integrating Customer Requirements into Product Design*. Cambridge, MA: Productivity Press Inc., ISBN 0-915-29941-0. 367 pages.
- Ansoff, H. Igor. 1965. *Corporate Strategy*. London: Penguin Books. ISBN 0-140-09112-2. 288 pages.
- Bernstein, L. 1996. *Against The Gods: The Remarkable Story of Risk*. Wiley. ISBN 0-471-29563-9. 383 pages.
- Blanchard, Benjamin S. 1997. *System Engineering Management*. New York: John Wiley & Sons, Inc. ISBN 0-471-19086-1. 504 pages.
- Bronson, Darren. 1999. Best Practices for Evolutionary Software Development. Massachusetts Institute of Technology (MIT) MBA and MSc. thesis. (This was submitted to the Sloan School of Management and the Department of Electrical Engineering and Computer Science in partial fulfillment of the requirements for the degrees of Master of Business Administration and Master of Science in Electrical Engineering and Computer Science in conjunction with the Leaders for Manufacturing Program at the Massachusetts Institute of Technology in June 1999.
- Cockburn, Alistair. 2002. *Agile Software Development*. Boston, MA: Addison Wesley, Inc. ISBN 0-201-69969-9. 278 pages.
- Cotton, Todd. August 1996. Evolutionary Fusion: A Customer-Oriented Incremental Life Cycle for Fusion. *Hewlett-Packard Journal*. Volume 47, Number 4, Pages 25–38. (This is adapted from the book, *Object-Oriented Development at Work: Fusion in the Real World*. Ruth Malan et al. (eds). Englewood Cliffs, NJ: Prentice Hall PTR. 1996.)
- Crosby, Philip B. 1985. *Quality Improvement through Defect Prevention: An Individual's Role*. Philip Crosby Associates Inc.
- Crosby, Philip B. 1996. *Quality is Still Free: Making Quality Certain in Uncertain Times*. McGraw Hill. ISBN 0-07-014532-6. 265 pages.
- Cusumano, Michael A. and Richard W. Selby. 1995. *Microsoft Secrets: How the World's Most Powerful Software Company Creates Technology, Shapes Markets, and Manages People*. The Free Press (A Division of Simon and Schuster). ISBN 0-02-874048-3. 512 pages.
- Daniels, J., P. W. Werner and A. T. Bahill, 2001. Quantitative Methods for Tradeoff Analysis. *Systems Engineering*. Volume 4, Number 3, Pages 190–211.
- Delavigne, Kenneth and Daniel J. Robertson. 1994. *Deming's Profound Changes. When Will the Sleeping Giant Awaken?* Englewood Cliffs, NJ: Prentice Hall PTR. ISBN 0-13-292690-3. Foreword by W. E. Deming.
- Deming, W. Edwards. 1986. *Out of the Crisis*. MIT Center for Advanced Engineering Study (CAES), Cambridge, MA, USA-02139. ISBN 0-911379-01-0. 507 pages.

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- Deming, W. Edwards. 1993. *The New Economics For Industry, Government, Education*. MIT Center for Advanced Engineering Study (CAES), Cambridge, MA, USA-02139. ISBN 0-911379-05-3. 240 pages.
- Dion, Raymond. July 1993. Process Improvement and the Corporate Balance Sheet. *IEEE Software*. Pages 28–35. See Haley et al. (1995) for update and more detail.
- DoD Evolutionary Acquisition. 1998. *Joint Logistics Commanders Guidance for Use of Evolutionary Acquisition Strategy to acquire Weapon Systems*. The Defense Systems Management College Press, Fort Belvoir, VA 22060-5565. Revised and reissued in June 1998 with a new Foreword.
- Elliot, Trevor and Dave Herbert. 2002. *Joined-Up Systems: Building the Integrated Business (The Management Consultancies Association Series)*. London: Hodder and Stoughton Educational. ISBN 0-340-85054-X. 192 pages.
- Gilb, Tom. 1976. *Software Metrics*. Sweden: Studentlitteratur AB, Lund (1976). USA: Winthrop (1977). Out of print.
- Gilb, Tom. 1988. *Principles of Software Engineering Management*. Wokingham and Reading, MA: Addison-Wesley. ISBN 0-201-19246-2. 442 pages.
- Gilb, Tom. 2005. Course lecture slides, articles, papers and book manuscripts on World Wide Web. URL: www.Gilb.com/.
- Gilb, Tom and Dorothy Graham. 1993. *Software Inspection*. Addison-Wesley. ISBN 0-201-63181-4. 471 pages.
- Grady, Robert B. and Tom Van Slack. Hewlett-Packard. July 1994. Key Lessons in Achieving Widespread Inspection Use. *IEEE Software*. Pages 46–58. This paper also appears in Wheeler, Brykczynski and Meeson (1996). This paper is available for a fee at <http://csdl.computer.org/comp/mags/so/1994/04/s4046abs.htm/>.
- Haley, T., B. Ireland, Ed. Wojtaszek, D. Nash and R. Dion. Raytheon. 1995. Raytheon Electronic Systems Experience in Software Process Improvement. This paper is available on-line at <http://www.sei.cmu.edu/publications/documents/95.reports/95.tr.017.html/>.
- Hooks, Ivy F. and Kristin A. Farry. 2000. Customer-Centered Products: Creating Successful Products Through Smart Requirements Management. Amacom (www.amacombooks.org). ISBN 0-814-40568-1. 272 pages. See www.complianceautomation.com/.
- Hummel, Helmut. September 2002. A Strategy for Acquiring Large and Complex Systems. Talk given by Dr. Helmut Hummel, NATO Conference, Bonn.
- IBM Systems Journal (IBMSJ). 1980. The Management of Software Engineering. *IBM Systems Journal*. Volume 19, Number 4, Pages 414–477.
- Part 1: H.D. Mills. Principles of Software Engineering. See Mills (1980).
 - Part IV: M. Dyer. Software Development Practices.
 - Part V: R. E. Quinnan. Software Engineering Management.
- Individual papers from the 1980 Journal are downloadable from <http://www.research.ibm.com/journal/>.
- IBM Systems Journal (IBMSJ). 1990. *IBM Systems Journal*. Individual papers from the 1990 journal are downloadable from <http://www.research.ibm.com/journal/>.
- IBM Systems Journal (IBMSJ). 1994. Software Quality. *IBM Systems Journal*. Volume 33, Number 1. Individual papers from the 1994 journal are downloadable from <http://www.research.ibm.com/journal/>.

- Ireson, W. Grant. (Editor). 1966. *Reliability Handbook*. New York: McGraw Hill.
- Jandourek, Emil. August 1996. A Model for Platform Development. *Hewlett-Packard Journal*. A copy of this article is available in PDF at <http://www.hpl.hp.com/hpjournal/96aug/aug96a6.html>.
- Järkvik, Jack, Lars Kylberg and others. 1994. Om att Lyckas (A Bit of Luck Helps, Too: On Succeeding). Published by Ericsson, Kista, Sweden for internal use. Sponsored by Mr. Stellan Nennerfelt. Internal publication number EN/LZT 123 1987.
- Juran, J. M. 1964. *Managerial Breakthrough: A New Concept of the Manager's Job and a Systematic Approach to Improving Management Performance*. McGraw Hill. ISBN 0-07-033172-3. 396 pages.
- Juran (Editor). 1974. *Quality Control Handbook*. McGraw Hill. ISBN 0-07-033175-8. 1780 pages. After 1994, this book is retitled *Juran's Quality Handbook*.
- Kaplan, Craig, Ralph Clark and Victor Tang. 1994. *Secrets of Software Quality, 40 Innovations from IBM*. McGraw Hill. ISBN 0-07-911975-3. 383 pages. www.iqco.com/.
- Keeney, Ralph L. 1992. *Value-focused Thinking: A Path to Creative Decision-making*. Cambridge, MA and London: Harvard University Press. ISBN 0-674-93197-1. <http://www.fuqua.duke.edu/faculty/alpha/keeney.html>.
- Kelly, J. 1990a. An Analysis of Defect Density found during Software Inspection. Proceedings of 15th Annual Software Engineering Workshop (NASA SEL-90-006), Jet Propulsion Labs., Pasadena, CA.
- Kelly, J. C. 1990b. An Analysis of Jet Propulsion Laboratory's Two Year Experience with Software Inspections. Proceedings of the Minnowbrook Workshop on Software Engineering, Blue Lake, NY.
- Koen, Billy V. 1984. Toward a Definition of the Engineering Method. *Proceedings of the ASEE-IEEE Frontiers in Education*. 14th Annual Conference, Philadelphia, PA. 3-5. October 1984. Pages 544-549. The paper also appeared in *Engineering Education*. December 1984. Pages 150-155. Also in Spring 1985 in *The Bent of Tau Beta Pi*. Pages 28-33. Reprinted there with permission from *Proceedings of the ASEE-IEEE Frontiers in Education*. A full page extract is in Gilb (1988). An extended and very interesting comment on the paper's ideas is in Koen (2003).
- Koen, Billy Vaughn. January 2003. *Discussion of the Method: Conducting the Engineer's Approach to Problem Solving*. Oxford University Press. ISBN 0-195-15599-8. Pages 260. <http://www.me.utexas.edu/faculty/people/koen.shtml>.
- Larman, Craig and Victor Basili. June 2003. Iterative and Incremental Development: A Brief History. *IEEE Computer*. Pages 2-11. See www.craiglarman.com for a copy of this paper.
- MacCormack, Alan. Winter 2001. Product-Development Practices that Work: How Internet Companies Build Software. *MIT Sloan Review*. Pages 75-84. amaccormack@hbs.edu.
- Maier, Mark W. and Eberhardt Rechtin. 2002. *The Art of Systems Architecting*. 2nd Edition. ISBN 0-9493-0440-7. 303 pages.
- May, Elaine L. and Barbara A. Zimmer. August 1996. The Evolutionary Development Model for Software. *Hewlett-Packard Journal*. Volume 47, Number 4, Pages 39-45. Available as pdf Adobe Acrobat file at <http://www.hpl.hp.com/hpjournal/96aug/aug96a4.html>.
- Mays, Robert. June 1995. IBM Defect Prevention Process and Test. Slides in 12th International Conference and Expo on Testing Computer Software,

442 Competitive Engineering

- Washington, DC. See his chapter on the Defect Prevention Process and his references in Gilb and Graham (1993).
- Mills, H. D. 1980. The Management of Software Engineering. Part 1: Principles of Software Engineering. *IBM Systems Journal*. Volume 19, Number 4. Reprinted 1999 in *IBM Systems Journal*. Volume 38, Numbers 2 and 3. A copy is downloadable from <http://www.research.ibm.com/journal/sj/194/ibmsj1904C.pdf/>.
- Mintzberg, Henry. 1994. *The Rise and Fall of Strategic Planning: Reconceiving Roles for Planning, Plans, Planners*. New York: The Free Press (A Division of Macmillian, Inc.). ISBN 0-02-921605-2. 458 pages.
- Morris, Peter W. G. 1994. *The Management of Projects*. London: Thomas Telford. ISBN 0 7277 1693 X. 358 pages. The American Society of Civil Engineers. The website <http://www.indeco.co.uk/> has additional recent papers by Professor Morris.
- Muller, Gerrit. 1999. Requirements Capturing by the System Architect. Available via <http://www.extra.research.philips.com/natlab/sysarch/RequirementsPaper.pdf/>.
- Pence, J. L. Pete and Samuel E. Hon III. Telecommunications Network Systems, Bellcore, Piscataway, NJ. October 1993. Building Software Quality into Telecommunications Network Systems. *Quality Progress*. Pages 95-97.
- Peters, Tom. 1992. *Liberation Management, Necessary Disorganization for the Nanosecond Nineties*. New York: Knopf and London: Macmillan. ISBN 0-333-53340-2.
- Ramo, Simon and Robin K. St.Clair. 1998. *The Systems Approach: Fresh Solutions to Complex Civil Problems through Combining Science and Practical Common Sense*. TRW, Inc., Manufactured in USA, KNI Incorporated, Anaheim, CA. 150 pages.
- Royce, Walker. 1998. *Software Project Management: A Unified Framework*. Reading, MA: Addison Wesley Longman, Inc. ISBN 0-201-30958-0. 406 pages.
- Saaty, Thomas L. 1988. Multicriteria Decision Making: The Analytical Hierarchy Process. *Decision Support Software*. McLean, VA.
- Slater, Robert. 2000. *The GE Way Fieldbook: Jack Welch's Battle Plan for Corporate Revolution*. New York: McGraw Hill. ISBN 0-07-135481-6. 288 pages.
- Sproles, Noel. University of South Australia. 2002. Formulating Measures of Effectiveness. *Systems Engineering*. Volume 5, Number 4, Pages 253-263. A copy of this paper is available online for a fee at <http://www.interscience.wiley.com/>.
- Spuck, William J. December 1993. The Rapid Development Method (RDM). Jet Propulsion Lab (JPL). JPL D-9679 (internal document).
- Thayer, Thomas A., Myron Lipow and Eldred C. Nelson. TRW. 1978. *Software Reliability: A Study of Large Project Reliability*. TRW Series on Software Technology. Vol. 2. Amsterdam: North-Holland. Out of print.
- Upadhyayula, Sharma. January 2001. Rapid and Flexible Product Development: An Analysis of Evolutionary Software Projects at Hewlett Packard and Agilent. Massachusetts Institute of Technology (MIT) MSc. thesis. A copy of the thesis is available on the Resources web page at the site <http://www.globalbusinessstrategies.com>. (This was submitted to the System Design and Management Program in partial fulfillment of the requirements

- for the degree of Master of Science in Engineering and Management at the Massachusetts Institute of Technology in January 2001.)
- Welch, Jack. 2001. *Jack: Straight from the Gut*. New York: Warner Business Books. ISBN 0-446-52838-2. 479 pages.
- Weller, Edward. September 1993. Lessons from Three Years of Inspection Data. *IEEE Software*. efweller@stt.com
- Wheeler, David A., Bill Brykczynski and Reginald N. Jr. Meeson. June 1996. *Software Inspection, An Industry Best Practice*. IEEE Computer Society Press. Order No. BP07340. ISBN 0-818-67340-0. 293 pages.
- Young, Ralph R. 2001. *Effective Requirements Practices* (Addison Wesley Information Technology Series). Addison Wesley. ISBN 0-201-70912-0.

