

Recommended Books for 17-690 (Seminar in Software Process) Projects

- T.K. Abdel-Hamid and S.E. Madnick, Software Project Dynamics, 1991.
- D.J. Anderson, Agile Management for Software Engineering: Applying the Theory of Constraints for Business Results, 2004.
- R.D. Austin, Measuring and Managing Performance in Organizations, 1996.
- I. Ayres, Super Crunchers: Why Thinking-By-Numbers Is the New Way to be Smart, 2007.
- K. Beck and M. Fowler, Planning Extreme Programming, 2001.
- K. Beck and C. Andres, Extreme Programming Explained: Embrace Change, 2nd Edition, 2004.
- P.L. Bernstein, Against the Gods: The Remarkable Story of Risk, 1996.
- B.W. Boehm, C. Abts, A.W. Brown, S. Chulani, B.K. Clark, E. Horowitz, R.J. Madachy, D. Reifer, and B. Steece, Software Cost Estimation with COCOMO II, 2000.
- B.W. Boehm and R. Turner, Balancing Agility and Discipline: A Guide for the Perplexed, 2004.
- F.W. Breyfogle III, Implementing Six Sigma: Smarter Solutions Using Statistical Methods, Second Edition, 2003.
- F.P. Brooks Jr., The Mythical Man-Month: Essays on Software Engineering Anniversary Edition, 1995.
- M.W. Bush and D.K. Dunaway, CMMI Assessments: Motivating Positive Change, 2005.
- R.C. Camp, Benchmarking: The Search for Industry Best Practices that Lead to Superior Performance, 1989.
- J. Campanella (ed), Principles of Quality Costs: Principles, Implementation, and Use, Third Edition, 1999.
- K. Caputo, CMM Implementation Guide: Choreographing Software Process Improvement, 1998.
- D. Carnegie, How to Win Friends & Influence People, Revised Edition, 1936 (revised 1981).
- M.R. Chapman, In Search of Stupidity: Over 20 Years of High-Tech Marketing Disasters, 2003.
- J.R. Chiles, Inviting Disaster: Lessons from the Edge of Technology, 2002.
- C.M. Christensen, The Innovator's Dilemma, 1997.
- D.I. Cleland, Project Management: Strategic Design and Implementation, Second Edition, 1994.
- A. Cockburn, Surviving Object-Oriented Projects: A Manager's Guide, 1997.
- A. Cockburn, Agile Software Development, 2002.
- A. Cockburn, Crystal Clear: A Human-Powered Methodology for Small Teams, 2004.
- J. Cohen, S. Teleki, and E. Brown, Best Kept Secrets of Peer Code Review, 2006.
- J.C. Collins and J.I. Porras, Built to Last, 1994.
- J.C. Collins, Good to Great, 2001.
- L.L. Constantine, Constantine on Peopleware, 1995.

L.L. Constantine, Beyond Chaos: The Expert Edge in Managing Software Development, 2001.

B. Creech, The Five Pillars of TQM, 1994.

R.X. Cringely, Accidental Empires, February 1992.

P.B. Crosby, Quality is Free, 1979.

B. Curtis, W.E. Hefley, and S.A. Miller, People Capability Maturity Model, 2001.

M.A. Cusumano, Japan's Software Factories, 1991.

M.A. Cusumano and R.W. Selby, Microsoft Secrets, 1995.

A.M. Davis, 201 Principles of Software Development, 1995.

T. DeMarco, Controlling Software Projects, 1982.

T. DeMarco, Why Does Software Cost So Much?, 1995.

T. DeMarco, The Deadline: A Novel About Project Management, 1997.

T. DeMarco and T. Lister, Peopleware, 2nd Edition, 1999.

T. DeMarco and T. Lister, Waltzing with Bears: Managing Risks on Software Projects, 2003.

W.E. Deming, Out of the Crisis, 1986.

W.E. Deming, The New Economics for Industry, Government, Education, Second Edition, 1994.

D. Dorner (translated by R. and R. Kimber, 1996), The Logic of Failure, 1989.

P.F. Drucker, Innovation and Entrepreneurship: Practices and Principles, 1985.

K.M. Dymond, A Guide to the CMM, 1995.

R.G. Ebenau and S.H. Strauss, Software Inspection Process, 1993.

R. and C. Eberts, The Myths of Japanese Quality, 1995.

K. El Emam and N.H. Madhavji (eds), Elements of Software Process Assessment and Improvement, 1999.

N.E. Fenton, R. Whitty, and Y. Lizuka (eds), Software Quality Assurance and Measurement: A Worldwide Perspective, 1996.

R. Fisher, W.L. Ury, and B. Patton, Getting to Yes: Negotiating Agreement Without Giving In, Second Edition, 1991.

W.A. Florac and A.D. Carleton, Measuring the Software Process: Statistical Process Control for Software Process Improvement, 1999.

D.C. Gause and G.M. Weinberg, Exploring Requirements: Quality Before Design, 1989.

T. Gilb, Software Metrics, 1977.

T. Gilb, Principles of Software Engineering Management, 1988.

T. Gilb, D. Graham, and S. Finzi, Software Inspection, 1993.

M. Gladwell, The Tipping Point: How Little Things Can Make a Big Difference, 2002.

M. Gladwell, Blink - The Power of Thinking Without Thinking, 2005.

R.L. Glass, Building Quality Software, 1992.

R.L. Glass, Facts and Fallacies of Software Engineering, 2004.

R.L. Glass, Software Conflict 2.0, 2006.

R.L. Glass, Software Creativity 2.0, 2006.

E.M. Goldratt, Critical Chain, 1997.

D. Goleman, Emotional Intelligence, 1997.

D. Goleman, Social Intelligence: The New Science of Human Relationships, 2006.

R.B. Grady and D.L. Caswell, Software Metrics: Establishing a Company-Wide Program, 1987.

R.B. Grady, Practical Software Metrics For Project Management and Process Improvement, 1992.

R.B. Grady, Successful Software Process Improvement, 1997.

M. Hammer and J. Champy, Reengineering the Corporation: A Manifesto for Business Revolution, 1993.

C. Handy, Gods of Management: The Changing Work of Organizations, Third Edition, 1991.

M. Harry and R. Schroeder, Six Sigma: The Breakthrough Management Strategy Revolutionizing the World's Top Corporations, 2000.

R. Hastie and R.M. Dawes, Rational Choice in an Uncertain World: The Psychology of Judgment and Decision Making, 2001.

G. Hofstede, Cultures and Organizations, Software of the Mind: Intercultural Cooperation and its Importance for Survival, 1996.

W.S. Humphrey, Managing the Software Process, 1989.

W.S. Humphrey, Managing Technical People, 1997.

W.S. Humphrey, Introduction to the Team Software Process, 1999.

R. Hunter and R.H. Thayer (eds), Software Process Improvement, 2001.

P. Jalote, CMM in Practice: Processes for Executing Software Projects at Infosys, 1999.

C. Jones, Patterns of Software System Failure and Success, 1996.

C. Jones, Applied Software Measurement, 2nd Edition, 1997. (*Third edition expected May 2008*)

C. Jones, Software Assessments, Benchmarks, and Best Practices, 2000.

J.M. Juran, Juran on Planning for Quality, 1988.

J.M. Juran, Juran on Quality By Design, 1992.

S.H. Kan, Metrics and Models in Software Quality Engineering, Second Edition, 2003.

R.S. Kaplan and D.P. Norton, The Balanced Scorecard: Translating Strategy into Action, 1996.

M. Kaplan and E. Kaplan, Chances Are... Adventures in Probability, 2006.

T. Kasse, Action Focused Assessment for Software Process Improvement, 2002.

J.R. Katzenbach and D.K. Smith, The Wisdom of Teams, 1993.

O. Kroeger with J.M. Thuesen, Type Talk at Work, 1992.

C. Larman, Agile and Iterative Development: A Manager's Guide, 2004.

M.R. LeGault, Think! Why Crucial Decisions Can't Be Made in the Blink of an Eye, 2006.

S.D. Levitt and S.J. Dubner, Freakonomics, Revised and Expanded Edition, 2006.

D. Madison, Process Mapping, Process Improvement, and Process Management, 2005.

S. Maguire, Debugging the Development Process, 1994.

M. Marchesi, G. Succi, D. Wells, and L.A. Williams (eds), Extreme Programming Perspectives, 2002.

I. Masaaki, Kaizen: The Key to Japan's Competitive Success, 1986.

S. McConnell, Rapid Development: Taming Wild Software Schedules, 1996.

S. McConnell, Software Project Survival Guide, 1998.

J. McGarry, D.N. Card, C. Jones, B. Layman, E. Clark, J. Dean, and F. Hall, Practical Software Measurement: Objective Information for Decision Makers, 2002.

J. Micklethwait and A. Wooldridge, The Witch Doctors: Making Sense of the Management Gurus, 1996.

D. Miller, The Icarus Paradox: How Exceptional Companies Bring About Their Own Downfall, 1990.

F. Moody, I Sing the Body Electronic, 1995.

G.A. Moore, Crossing the Chasm: Marketing and Selling High-Tech Products to Mainstream Customers, 1991.

G.A. Moore, Dealing with Darwin: How Great Companies Innovate at Every Phase of Their Evolution, 2005.

H.R. Neave, The Deming Dimension, 1990.

R.C. Newbold, Project Management in the Fast Lane: Applying the Theory of Constraints, 1998.

D.A. Norman, The Psychology of Everyday Things, 1988.

J. O'Shea and C. Madigan, Dangerous Company: Management Consultants and the Businesses They Save and Ruin, 1997.

C. Perrow, Normal Accidents, 1984.

T.J. Peters and N. Austin, A Passion for Excellence, 1985.

T.J. Peters, Thriving on Chaos, 1987.

I. Peterson, Fatal Defect, 1995.

H. Petroski, To Engineer is Human, 1985.

J. Pfeffer and R.I. Sutton, Hard Facts, Dangerous Half-Truths, & Total Nonsense: Profiting from Evidence-Based Management, 2006.

D.S. Platt, Why Software Sucks... and What You Can Do About It, 2006.

L.H. Putnam and W. Myers, Measures for Excellence, 1992.

L.H. Putnam and W. Myers, Industrial Strength Software: Effective Management Using Measurement, 1997.

R.E. Quinn, Beyond Rational Management, 1988.

R.A. Radice, High Quality Low Cost Software Inspections, 2002.

D.J. Reifer, Making the Software Business Case: Improvement by the Numbers, 2001.

T.J. Rodgers, W. Taylor, and R. Foreman, No Excuses Management, 1993.

E.M. Rogers, Diffusion of Innovations, Fifth Edition, 2003.

E.H. Schein, Organizational Culture and Leadership, Second Edition, 1992.

P.R. Scholtes, B.L. Joiner, and B.J. Streibel, The TEAM Handbook, Second Edition, 1996.

M. Schrage, No More Teams! Mastering the Dynamics of Creative Collaboration, 1989.

K. Schwaber, Agile Project Management with Scrum, 2004.

P.M. Senge, The Fifth Discipline: The Art & Practice of the Learning Organization, 1990.

P.M. Senge, A. Kleiner, C. Roberts, R. Ross, and B. Smith, The Fifth Discipline Fieldbook: Strategies and Tools for Building a Learning Organization, 1994.

M. Stephens and D. Rosenberg, Extreme Programming Refactored: The Case Against XP, 2003.

M. Treacy and F. Wiersema, The Discipline of Market Leaders, 1997.

E.R. Tufte, The Visual Display of Quantitative Information, 1983.

W. Ury, Getting Past No: Negotiating Your Way from Confrontation to Cooperation, 1993.

K.E. Weick and K.M. Sutcliffe, Managing the Unexpected: Assuring High Performance in an Age of Complexity, 2001.

G.M. Weinberg, Becoming a Technical Leader, 1986.

G.M. Weinberg, Understanding the Professional Programmer, 1988.

G.M. Weinberg, Quality Software Management Volume 1: Systems Thinking, 1992.

G.M. Weinberg, Quality Software Management Volume 2: First-Order Measurement, 1993.

G.M. Weinberg, Quality Software Management Volume 3: Congruent Action, 1994.

G.M. Weinberg, Quality Software Management Volume 4: Anticipating Change, 1997.

G.M. Weinberg, The Psychology of Computer Programming: Silver Anniversary Edition, 1998.

M.J. Wheatley, Leadership and the New Science: Discovering Order in a Chaotic World Revised, 2001.

D.J. Wheeler and D.S. Chambers, Understanding Statistical Process Control, Second Edition, 1992.

D.J. Wheeler, Understanding Variation: The Key to Managing Chaos, Second Edition, 2000.

D.J. Wheeler, Making Sense of Data: SPC for the Service Sector, 2003.

K.E. Wiegers, Creating a Software Engineering Culture, 1996.

K.E. Wiegers, Peer Reviews in Software, 2002.

J.R. Williams, Renewable Advantage: Crafting Strategy Through Economic Time, 1998.

L.A. Williams and R.R. Kessler, Pair Programming Illuminated, 2002.

E.N. Yourdon, Death March: The Complete Software Developer's Guide to Surviving "Mission Impossible" Projects, 1997.

G.P. Zachary, Showstopper! The Breakneck race to Create Windows NT and the Next Generation at Microsoft, 1994.