

The Engineer's Bookshelf

ECE - Book Recommendations

Electrical and Computer Engineering
Worcester Polytechnic Institute

Special Notes

- We do not include links to books sellers or publishers. We do not endorse any particular seller or publisher.
- The list of books provided below is not endorsed by WPI or by ECE. It is, however, a list of books that have been suggested by many influential engineers, scientist, managers, entrepreneurs and teachers (K-12, Higher Ed).
- Enjoy!

Against the Gods : The Remarkable Story of Risk, Peter Bernstein

All Marketers are Liars : The Power of Telling Authentic Stories in a Low-Trust World, Seth Godin

AntiPatterns, Brown

Augustine's Laws, Norman R. Augustine, 6th Ed, AIAA

Augustine's Laws, or **Augustines Travels**, or **Managing Projects and Programs**, N. Augustine

A Whole New Mind: Why Right-Brainers will Rule the Future by Daniel Pink

Balanced Scorecard Step-by-Step: Maximizing Performance and Maintaining Results, Paul Niven
Explains

Beyond Code : Learn to Distinguish Yourself in 9 Simple Steps!, Rajesh Setty Setty

Big Blues: The Unmaking of IBM (by Paul Carroll)

Blink: The Power of Thinking without Thinking by Malcolm Gladwell

Blue Ocean Strategy : How to Create Uncontested Market Space and Make Competition Irrelevant,
W. Chan Kim

Built To Last, Collins and Porras

Coming of Age in the Milky Way (Timothy Ferris)

Concepts in Problem Solving, Rubinstein, Moshe F. , Pfeiffer, Kenneth

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

Deep Simplicity: Bringing Order to Chaos and Complexity, John Gribbin

Difficult Conversations, Stone et al.

Dr. Euler's Fabulous Formula, or **An Imaginary Tale**, or **The Science of Radio**, Nahin

Economics in One Lesson, Henry Hazlitt

Emotional Intelligence: Why It Can Matter More Than IQ, Daniel Goleman

Execution : The Discipline of Getting Things Done, Larry Bossidy, Ram Charan, Charles Burck

First, Break All the Rules, Buckingham and Clifton

Five Dysfunctions of a Team, Lencioni

Four Steps to the Epiphany, Steven Gary Blank

Getting to Yes: Negotiating Agreement Without Giving In, Roger Fisher, William L. Ury, Bruce
Patton

Good to Great: Why Some Companies Make the Leap... and Others Don't, Jim Collins

Guns, Germs and Steel : The Fates of Human Societies, Jared Diamond

How Full is Your Bucket?, Rath and Clifton

How to Solve It, Polya, George

How to Solve Problems: Elements of a Theory of Problems and Problem Solving, Wickelgren.
Don't know if

How to Work a Room, Susan RoAne

Influence: Science and Practice, Robert Cialdini

Infoguru Manual, Robert Middleton

Journey Through Genius: The Great Theorems of Mathematics (by William Dunham)

Leadership 101, J. Maxwell

Listen and be Listened To, American Management Association, Nan Levinson.

Making Decisions, D. V. Lindley, 2nd ed

Making Decisions, or **Degrees Kelvin**, or **The End of Physics**, Lindley

Neuromarketing: Is There a 'Buy Button' in the Brain? Selling to the Old Brain for Instant Success, Patrick Renvois, Christophe Morin

NLP at Work : The Difference That Makes a Difference in Business, Sue Knight

Now, Discover Your Strengths, Buckingham and Clifton

Oliver Heaviside : The Life, Work, and Times of an Electrical Genius of the Victorian Age, Paul J. Nahin

On Intelligence, Jeff Hawkins

Patterns of Problem Solving, Rubinstein, Moshe F.

Peopleware: Productive Projects and Teams, DeMarco and Lister

Profit From The Core, Zook

Rules for Revolutionaries, Kawasaki

Seven Habits of Highly Effective People, Stephen Covey

Silicon Dreams: Information, Man, and Machine, Robert W. Lucky

Snow Crash, Neal Stephenson

Software without Borders : A Step-By-Step Guide to Outsourcing Your Software Development, Steve Mezak

Structure of Scientific Revolutions, Thomas Kuhn

Stuff you Don't Learn in Engineering School: Skills for Success in the Real World has just been published, Wiley-IEEE Press

Success through Failure: The Paradox of Design, Henry Petroski

The 86% Solution : How to Succeed in the Biggest Market Opportunity of the Next 50 Years, Vijay Mahajan, Kamini Banga

The Art of Innovation, Tom Kelley.

The Complete Idiot's Guide to Marketing Basics.

The Design of Everyday Things. Donald Norman

The E-Myth Revisited : Why Most Small Businesses Don't Work and What to Do About It, Michael E. Gerber

The Effective Executive, Peter Druckers

The Essential Drucker: The Best of Sixty Years of Peter Drucker's Essential Writings on Management, Peter Drucker

The Fifth Discipline, Peter Senge

The Four Agreements : A Practical Guide to Personal Freedom, Don Miguel Ruiz

The Goal, Eliyahu Goldratt and Jeff Cox

The Inmates are Running the Asylum, Allan Cooper

The Innovators Dilemma : The Revolutionary Book that Will Change the Way You Do Business, Clayton M. Christensen

The Lexus and the Olive Tree : Understanding Globalization, Thomas L. Friedman

The Logic of Failure, Dietrich Dörner

The Making of the Atomic Bomb (by Richard Rhodes) Pulitzer Prize winner.

The Mythical Man-Month, Brooks

The Origin of Consciousness in the Breakdown of the Bicameral Mind, Julian Jaynes

The Ropes to Skip and the Ropes to Know, Ritti and Levy.

The Selfish Gene, Richard Dawkins

The Seven Habits of Highly Effective People, Stephen Covey.

The Singularity is Near : When Humans Transcend Biology, Ray Kurzweil

The Soul of the New Machine, Kidder

The Tipping Point : How Little Things Can Make a Big Difference, Malcolm Gladwell

The World Is Flat, Tom Freidman.

To Engineer is Human, Henry Petroski

Tools for Thinking about Problem Solving, Rubinstein, Moshe F.

Voodoo Science (by Robert Park)

Winning in Fast Time : Harness the Competitive Advantage of Prometheus in Business and Life, John A., III Warden, Leland Russell

Wisdom of Crowds, James Surowiecki

Why People Believe Weird Things: Pseudoscience, Superstition, and Other Confusions of Our Time (by Michael Shermer)

Working Without a Net, Morris R. Shechtman

Software, Engineering, Science

The Pragmatic Programmer, Hunt and Thomas

UML Distilled, Fowler

Design Patterns, Gamma, et. al.

Refactoring: Improving the Design of Existing Code, Fowler

Design and Evolution of C++, Stroustrup

Design Patterns (by Gamma & 3 others)

Joel on Software, Joel Spolsky

Code Complete, Steve McConnell

Crystal Clear, Cockburn

Effective COM, Box

Debugging: Nine rules for Finding the Most Elusive HW and SW Problems, Agans

Agile Software Development, Cockburn

Complex Variables and Application, R V Churchill.

Digital Communications, Bernard Sklar.

An Introduction to Error Analysis, J. B. Taylor.

Introduction to Modern Optics, Grant Fowles.

Practical Cisco Routers, J. Habraken.

Literature

Zen and the Art of Motorcycle Maintenance Pirsig's

Gone with the Wind, Margaret Mitchell

Black Like Me, John Howard Griffin

War and Peace, Leo Tolstoy

Poetry: Its Power and Wisdom, Francis X. Connolly

I, Claudius, Robert Graves

The Ring Trilogy, J. R. R. Tolkien

Deliverance, James Dickey

In the Shadow of Man, Jane Goodall

Plain Speaking, Merle Miller (biography of Harry Truman)

Great Lion of God, Taylor Caldwell (novelization of St. Paul)

Roots, Alex Haley

The Elements of Style, Strunk and White

Godel, Escher, Bach, Douglas R. Hofstadter (tour de force about mathematics and logic)

The Stand, Stephen King

Dumas Malone any of his books on **Thomas Jefferson**

Winston Spencer Churchill: Alone: 1932-1940, William Manchester

Truman, David McCullough

Harry Potter series, J. K. Rowling

A Walk in the Woods, Bill Bryson

The Dante Club, Matthew Pearl

Julian, Gore Vidal

Darkness at Noon, Arthur Koestler:

Baby Yar, A. Anatoli Kuznetsov.

A Prayer for Owen Meany.

On the Beach, Nevil Shute.

The Shawshank Redemption,, Stephen King.

Angela's Ashes, Frank McCourt.

The Color of Water, McBride.

Atlas Shrugged, A. Rand

The Art of War Sun Xu

Jude the Obscure, Thomas Hardy.