

# Engineering & Programming Books

Book Title	Category	Author	Topics
Artificial Intelligence: A Modern Approach	Artificial Intelligence	Stuart Russell, Peter Norvig	Search Algorithms, Machine Learning
Deep Learning	Artificial Intelligence	Ian Goodfellow, Yoshua Bengio, Aaron Courville	Neural Networks, Deep Learning
Pattern Recognition and Machine Learning	Artificial Intelligence	Christopher M. Bishop	Bayesian Networks, Probabilistic Models
Computer Networking: A Top-Down Approach	Computer Science	James F. Kurose, Keith W. Ross	Networking Protocols, TCP/IP, DNS
Introduction to the Theory of Computation	Computer Science	Michael Sipser	Automata Theory, Complexity Theory
Operating System Concepts	Computer Science	Abraham Silberschatz, Peter B. Galvin, Greg Gagne	Process Management, Memory Management
Data Science for Business	Data Science	Foster Provost, Tom Fawcett	Data-Driven Decision Making, Predictive Analytics
Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow	Data Science	Aurélien Géron	Supervised Learning, Deep Learning
The Elements of Statistical Learning	Data Science	Trevor Hastie, Robert Tibshirani, Jerome H. Friedman	Statistical Learning, Regression, Classification
Artificial Intelligence: Foundations of Computational Agents	Artificial Intelligence	David L. Poole, Alan K. Mackworth	Search Algorithms, Knowledge Representation
Reinforcement Learning: An Introduction	Artificial Intelligence	Richard S. Sutton, Andrew G. Barto	Markov Decision Processes, Q-Learning
Natural Language Processing with Python	Artificial Intelligence	Steven Bird, Ewan Klein, Edward Loper	Text Processing, NLTK, Computational Linguistics
Computer Organization and Design	Computer Science	David A. Patterson, John L. Hennessy	Computer Architecture, Assembly Language
Clean Code: A Handbook of Agile Software Craftsmanship	Computer Science	Robert C. Martin	Software Development, Code Reviews
Introduction to Algorithms	Computer Science	Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, D. Jeffrey	Sorting, Graph Algorithms, Dynamic Programming
Python Data Science Handbook	Data Science	Jake VanderPlas	Pandas, NumPy, Data Visualization
Bayesian Methods for Hackers	Data Science	Cameron Davidson-Pilon	Bayesian Statistics, Probabilistic Models
Data Mining: Practical Machine Learning Tools and Techniques	Data Science	Ian H. Witten, Eibe Frank, Mark A. Hall	Data Preprocessing, Classification, Regression
Modern Operating Systems	Computer Science	Andrew S. Tanenbaum, Herbert Bos	Process Management, File Systems, Networking
Operating Systems: Three Easy Pieces	Computer Science	Remzi H. Arpaci-Dusseau, Andre A. Chien	Concurrency, Disk Scheduling, Performance
The Design of the UNIX Operating System	Computer Science	Maurice J. Bach	UNIX Kernel, File Systems, Process Management
Linux Kernel Development	Computer Science	Robert Love	Linux Internals, Kernel Programming
Windows Internals	Computer Science	Mark Russinovich, David Solomon, Alex Ionescu	Windows Architecture, Process Management
All of Statistics: A Concise Course in Statistical Inference	Data Science	Larry Wasserman	Probability Theory, Statistical Inference
Practical Statistics for Data Scientists	Data Science	Peter Bruce, Andrew Bruce	Descriptive Statistics, Regression, Classification
An Introduction to Statistical Learning	Data Science	Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani	Linear Regression, Logistic Regression, Classification
Bayesian Data Analysis	Data Science	Andrew Gelman, John B. Carlin, John Yajima, David Dunson	Bayesian Statistics, Data Analysis
The Book of Why: The New Science of Causality	Data Science	Judea Pearl, Dana Mackenzie	Causal Inference, Probability, Machine Learning
Probability and Statistics for Engineers and Scientists	Data Science	Jay L. Devore	Probability Distributions, Estimation, Hypothesis Testing
Introduction to Probability	Data Science	Joseph K. Blitzstein, Jessica Hwang	Random Variables, Probability Theory

A First Course in Probability	Data Science	Sheldon Ross	Combinatorial Probability, Markov Chains
Probability Theory: The Logic of Science	Data Science	E.T. Jaynes	Bayesian Probability, Inference
Probability and Computing: Randomized Algorithms and Probabilistic Analysis	Data Science and Probability Analysis	Nicolai Mitzenmacher, Eli Upfal	Randomized Algorithms, Markov Chains
HTML and CSS: Design and Build Websites	Web Development	Jon Duckett	HTML Basics, CSS Styling, Web Layout
JavaScript and JQuery: Interactive Front-End Web Development	Web Development	Jon Duckett	JavaScript Basics, DOM Manipulation, JQuery
Eloquent JavaScript	Web Development	Marijn Haverbeke	JavaScript Programming, Functional Programming
CSS: The Missing Manual	Web Development	David Sawyer McFarland	CSS Fundamentals, Responsive Design
Effective Java	Programming - Java	Joshua Bloch	Java Best Practices, Object-Oriented Design
Java: The Complete Reference	Programming - Java	Herbert Schildt	Java Language, OOP, Java API
The C Programming Language	Programming - C	Brian W. Kernighan, Dennis M. Ritchie	C Fundamentals, Pointers, Memory Management
C Programming: A Modern Approach	Programming - C	K. N. King	C Basics, Structures, File Handling
Python Crash Course	Programming - Python	Eric Matthes	Python Basics, OOP, Web Development
Fluent Python	Programming - Python	Luciano Ramalho	Advanced Python Techniques, Decorators