Engineering Books for Different Branches and Levels

1. Computer Science & Engineering

Beginner
- "Introduction to the Theory of Computation" - Michael Sipser
  YouTube: https://www.youtube.com/watch?v=H9n1wx_ENag
- "Computer Networking: A Top-Down Approach" - Kurose & Ross
  YouTube: https://www.youtube.com/watch?v=qiQR5rTSshw
- "Operating System Concepts" - Silberschatz, Galvin, Gagne
  YouTube: https://www.youtube.com/watch?v=26QPDBe-NB8
- "Python Crash Course" - Eric Matthes
  YouTube: https://www.youtube.com/watch?v=rfscVS0vtbw

Intermediate
- "Artificial Intelligence: A Modern Approach" - Stuart Russell & Peter Norvig
  YouTube: https://www.youtube.com/watch?v=2ePf9rue1Ao
- "Database System Concepts" - Silberschatz, Korth & Sudarshan
  YouTube: https://www.youtube.com/watch?v=WYZSdA4FwoY
- "Computer Organization and Design" - David A. Patterson, John L. Hennessy
  YouTube: https://www.youtube.com/watch?v=5r2E7GKm1Xs
- "Machine Learning" - Tom M. Mitchell
  YouTube: https://www.youtube.com/watch?v=Gv9_4yMHFhI

Advanced
- "The Art of Computer Programming" - Donald Knuth
  YouTube: https://www.youtube.com/watch?v=1MdBaiD3g18
- "Deep Learning" - Ian Goodfellow, Yoshua Bengio, Aaron Courville
  YouTube: https://www.youtube.com/watch?v=aircAruvnKk
- "Pattern Recognition and Machine Learning" - Christopher Bishop
  YouTube: https://www.youtube.com/watch?v=1zBvTQHulFk
- "Reinforcement Learning: An Introduction" - Richard S. Sutton, Andrew G. Barto
  YouTube: https://www.youtube.com/watch?v=2pWv7GOvuf0

2. Mechanical Engineering

Beginner
- "Engineering Mechanics: Statics and Dynamics" - J.L. Meriam, L.G. Kraige
  YouTube: https://www.youtube.com/watch?v=WIlu6FMoR3E
- "Thermodynamics: An Engineering Approach" - Yunus A. Çengel, Michael A. Boles
  YouTube: https://www.youtube.com/watch?v=fy8Z2R-RfM8
- "Materials Science and Engineering: An Introduction" - William D. Callister
  YouTube: https://www.youtube.com/watch?v=4F0F4t_KEjM
- "Introduction to Robotics: Mechanics and Control" - John J. Craig
  YouTube: https://www.youtube.com/watch?v=AJn842R_pqQ