

UIUC PHYSICS 406 REFERENCE BOOKS

TECHNICAL: ACOUSTICS

1. **The Physics of Musical Instruments, 2nd Edition**, Neville H. Fletcher and Thomas D. Rossing, Springer-Verlag, New York, U.S.A., 1998.
2. **The Science of Sound, 3rd Edition**, Thomas D. Rossing, F. Richard Moore, Paul A. Wheeler, Addison-Wesley, U.S.A., 2002.
3. **Fundamentals of Acoustics, 4th Edition**, L.E. Kinsler, A.R. Frey, A.B. Coppens and J.V. Sanders, Wiley, 2000.
4. **Handbook of Acoustics**, Ed. By Thomas D. Rossing, Springer, 2007.
5. **Sound Intensity, 2nd Edition**, Frank Fahy, E & FN Spon Press/Chapman and Hall, 1995.
6. **Acoustics: Sound Fields and Transducers**, Leo L. Beranek and Tim Mellow, Academic Press, 2012.
7. **Master Handbook of Acoustics, 5th Edition**, F. Alton Everest, Ken C. Pohlmann, McGraw-Hill, 2009.
8. **Fundamental of Physical Acoustics**, David T. Blackstock, Wiley Interscience, 2000.
9. **Vibrations and Waves**, A.P. French CRC Press/W.W. Norton & Company, 1971
10. **The Acoustical Foundations of Music, 2nd Edition**, John Backus, W.W. Norton Company, Inc, New York, U.S.A., 1977.
11. **Fourier Acoustics – Sound Radiation and Nearfield Acoustic Holography**, Earl G. Williams, Academic Press, 1999.
12. **The Feynman Lectures on Physics, Volume I**, Richard P. Feynman, Robert B. Leighton, Matthew Sands, Addison-Wesley Publishing Company, U.S.A., 1963. See especially Chapters: 21 (Harmonic Oscillator), 22 (Algebra), 23 (Resonance), 24 (Transients), 25 (Linear Systems), 47 (Sound), 48 (Beats), 49 (Modes), and 50 (Harmonics).

TECHNICAL: ELECTRONICS

1. **Electronic Music - Systems, Techniques and Controls**, Allen Strange, William C. Brown Company, U.S.A., 1972.
2. **Principles of Electronic Instrumentation**, A. James Diefenderfer, W. B. Saunders Company, Philadelphia, London, Toronto, 1972.
3. **Digital and Analog Data Conversions, Module 3, Text with Experiments**, Howard V. Malmstadt, Christie G. Enke, Stanley R. Crouch, W. A. Benjamin, Inc. 1973.
4. **Optimization of Electronic Measurements, Module 4, Text with Experiments**, Howard V. Malmstadt, Christie G. Enke, Stanley R. Crouch, Gary Horlick, W. A. Benjamin, Inc. 1974.
5. **The Art of Electronics**, Paul Horowitz and Winfield Hill, Cambridge University Press, 1980.
6. **Theory and Problems of Basic Circuit Analysis**, John O'Malley, Schaum's Outline Series, McGraw-Hill Book Company, 1982.

TECHNICAL: VACUUM TUBES

1. **Electronics**, Jacob Millman and Samuel Seely, 1st Edition, McGraw-Hill Book Company, Inc., New York & London, 1941.
2. **Radio Engineer's Handbook**, Frank Emmons Terman, 1st Edition, McGraw-Hill Book Company, Inc., New York & London, 1943.
3. **Materials and Techniques for Electron Tubes**, Walter H. Kohl, General Telephone & Electronics Technical Series, Reinhold Publishing Corporation, New York, 1960.
4. **Vacuum Tubes**, Karl R. Spangenberg, 1st Edition, McGraw-Hill Book Company, Inc., New York, Toronto, London, 1948.

5. **Vacuum Tube Circuits**, Lawrence Baker Aguibau, John Wiley & Sons, Inc., New York/Chapman & Hall Limited, London, 1948.
6. **Principles of Electricity and Magnetism**, Gaylord P. Harnwell, 2nd Edition, McGraw-Hill Book Company, Inc., New York, Toronto, London, 1949.
7. **Valves for Audio Frequency Amplifiers**, E. Rodenhuis, Philip's Technical Library, Popular Series, N.V. Philips Gloeilampenfabrieken, Eindhoven (Holland), 1954. First Reprint Edition, Old Colony Sound Laboratory, Peterborough, New Hampshire, U.S.A., 1997.
8. **Radiotron Designer's Handbook**, edited by F. Langford-Smith, 4th Edition, Radio Corporation of America, Harrison, New Jersey, U.S.A., December, 1957.
9. **Vacuum Tube and Semiconductor Electronics**, Jacob Millman, McGraw-Hill Book Company, Inc., New York, Toronto, London, 1958.
10. **RCA Tube Manual**,
11. **The Audio Designer's Tube Register - Volume 1: Common Low-Power Triodes**, Tom Mitchell, Media Concepts, Norwalk, California, U.S.A., 1993.
12. **Valve Amplifiers**, 2nd Edition, Morgan Jones, Newnes, Oxford, UK, 1999.

TECHNICAL: TRANSFORMERS

1. **Electronic Transformers and Circuits**, Reuben Lee, Leo Wilson and Charles E. Carter, 3rd Edition, John Wiley & Sons, 1988.
2. **Handbook of Transformer Design and Applications**, William M. Flanagan, 2nd Edition, McGraw-Hill, Inc., 1993.
3. **Transformers and Tubes in Power Amplifiers**, Menno vander Veen,

TECHNICAL: GUITARS

1. **Scientific Guitar Design**, Donald Brosnac, Bold Strummer Ltd., Westport, CT, 1978.
2. **Guitar Player Repair Guide - How to Set Up, Maintain, and Repair Electrics and Acoustics**, 2nd Edition, Dan Erlewine.

TECHNICAL: TUBE AMPLIFIERS

1. **Principles of Power - A Practical Guide To Tube Power Amplifier Design**, Kevin O'Connor, Power Press Publishing, London, Canada, 1996.
2. **The Ultimate Tone - Modifying and Custom Building Tube Guitar Amps**, Kevin O'Connor, Power Press Publishing, London, Canada, 1995.
3. **The Ultimate Tone - Volume 2, Systems Approach to Stage Sound Nirvana**, Kevin O'Connor, Power Press Publishing, London, Canada, 1997.
4. **The Ultimate Tone - Volume 3, Generations of Tone**, Kevin O'Connor, Power Press Publishing, London, Canada, 2002.
5. **The Ultimate Tone - Volume 4, Advanced Techniques for Modern Guitar Amp Design**, Kevin O'Connor, Power Press Publishing, London, Canada, 2006.
6. **The Ultimate Tone - Volume 5, Tone Capture**, Kevin O'Connor, Power Press Publishing, London, Canada, 2004.
7. **Tons of Tone, Electronics Projects for Guitar and Bass**, Kevin O'Connor, Power Press Publishing, London, Canada, 1996.
8. **Circuit Analysis of a Legendary Tube Amplifier: The Fender Bassman 5F6-A**, 2nd Edition, Richard Kuehnel, Pentode Press, Seattle, WA, U.S.A., 2005.
9. **Vacuum Tube Circuit Design: Guitar Amplifier Preamps**, Richard Kuehnel, Pentode Press, Seattle, WA, U.S.A., 2007.
10. **Vacuum Tube Circuit Design: Guitar Amplifier Power Amps**, Richard Kuehnel, Pentode Press, Seattle, WA, U.S.A., 2008.

11. **Inside Tube Amps - The Book on Tube Amps Technology**, Dan Torres, First Edition 1B, Sparpco, Inc, San Mateo, California, U.S.A., 1995.
12. **Vacuum Tube Guitar and Bass Amp Theory**, Tino Zottola, Bold Strummer Ltd., Westport, Connecticut, U.S.A., 1995.
13. **Vacuum Tube Guitar and Bass Amp Servicing**, Tino Zottola, Bold Strummer Ltd., Westport, Connecticut, U.S.A., 1995.
14. **Great Tube Amp and Guitar Mods Volume I**, Mike Thompson, Bold Strummer Ltd., Westport, Connecticut, U.S.A., 1995.
15. **Tube Amp Basics**, Gerald Weber, Kendrick Books, Pflugerville, Texas, U.S.A., 1997.
16. **The Amp Book - A Guitarist's Introductory Guide to Tube Amplifiers**, Donald Brosnac, Bold Strummer Ltd., Westport, Connecticut, U.S.A., 1987.
17. **How to Service Your Own Tube Amp**, Tom Mitchell, Media Concepts, Norwalk, California, U.S.A., 1993.
18. **The High-Performance Marshall Handbook - A Guide to Great Marshall Amplifier Sounds**, John "Dutch" Boehnlein, Bold Strummer Ltd., Westport, Connecticut, U.S.A., 1994.

TECHNICAL: LOUDSPEAKERS

1. **Introduction to Loudspeaker Design**, John L. Murphy,
2. **The Loudspeaker Design Cookbook, 5th Edition**, Vance Dickason,
3. **Loudspeaker Recipes, Book 1**, Vance Dickason,

HISTORY: ELECTRIC GUITARS

1. **Gruhn's Guide To Vintage Guitars**, George Gruhn and Walter Carter, GPI Books/Miller-Freeman Books, San Francisco, California, U.S.A., 1991.
2. **American Guitars - An Illustrated History**, Tom Wheeler, Harper Perennial/Harper Collins Publishers, Inc., revised and updated edition, 1992.
3. **Electric Guitars and Basses - A Photographic History**, George Gruhn and Walter Carter, GPI Books/Miller-Freeman Books, San Francisco, California, U.S.A., 1994.
4. **Norman's Rare Guitars - 30 Years of Buying, Selling and Collecting**, Norman Harris & David Swartz, Swartz Inc., Los Angeles, California, U.S.A., 1999.
5. **Guitar History Volume 1: Fender Guitars**, Donald Brosnac, Bold Strummer Ltd., Westport, Connecticut, U.S.A., 1984.
6. **The Fender Book - A Complete History of Fender Electric Guitars**, Tony Bacon and Paul Day, GPI Books/Miller-Freeman Inc., San Francisco, California, U.S.A., 1992.
7. **Guitar Legends - The Evolution of the Guitar from Fender to G&L**, George Fullerton, Centerstream Publishing, Fullerton, California, U.S.A., 1993.
8. **Fender - The Inside Story**, Forrest White, GPI Books/Miller-Freeman Books, San Francisco, California, U.S.A., 1994.
9. **Fender: The Sound Heard `Round The World**, Richard R. Smith, Garfish Publishing Company, Fullerton, California, U.S.A., 1995.
10. **Fender Classic Moments - Fifty Years of Modern Music**, Alan di Perna, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1995.
11. **50 Years of Fender**, Tony Bacon and Paul Day, Balafon Books, London, UK, 2000.
12. **My Life and Time with Fender**, Bill Carson, Vintage Guitar Books, Milwaukee, Wisconsin, U.S.A., 1998.
13. **Fender Custom Shop Guitar Gallery**, Richard R. Smith, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1996.
14. **The Fender Telecaster®**, André R. Duchossoir, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., October, 1991.

15. **The Fender Stratocaster®**, André R. Duchossoir, 40th Anniversary Edition, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1994.
16. **The Story of the Fender Stratocaster® - “Curves, Contours and Body Horns”**, Ray Minhinnet & Bob Young, GPI Books/Miller-Freeman Books, San Francisco, California, U.S.A., 1995.
17. **The Fender Bass**, Klaus Blasquiz, MediaPresse/Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., June, 1990.
18. **The Fender Bass – An Illustrated History**, J.W. Black and Albert Molinaro, Dave Maddux and Jill Molin, Hal Leonard Books, Milwaukee, Wisconsin, U.S.A., 2001.
19. **How the Fender Bass Changed the World**, Jim Roberts, Backbeat Books, San Francisco, California, U.S.A., 2001.
20. **Gibson Guitars - 100 Years of an American Icon**, Walter Carter, Gibson Guitar Corporation/General Publishing Group, Los Angeles, California, U.S.A., 1994.
21. **Gibson Electrics**, André R. Duchossoir, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., November, 1981.
22. **Gibson Electrics - The Classic Years**, André R. Duchossoir, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1994.
23. **The Gibson Les Paul® Book - A Complete History of Les Paul® Guitars**, Tony Bacon and Paul Day, GPI Books/Miller-Freeman Inc., San Francisco, California, U.S.A., 1993.
24. **The Beauty of the `Burst - Gibson Sunburst Les Pauls from ‘58 To ‘60**, Yasuhiko Iwanade, Guitarix Inc./Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1998.
25. **Guitar History Volume 2: The Gibson SG**, John Bulli, Bold Strummer Ltd., Westport, Connecticut, U.S.A., 1989.
26. **The Gretsch Book - A Complete History of Gretsch Guitars**, Tony Bacon and Paul Day, GPI Books/Miller-Freeman Inc., San Francisco, California, U.S.A., 1993.
27. **The PRS Guitar Book**, Dave Burrluck, Balafon Books, London, England, 1999.
28. **The Rickenbacker Book - A Complete History of Rickenbacker Guitars**, Tony Bacon and Paul Day, GPI Books/Miller-Freeman Inc., San Francisco, California, U.S.A., 1993.
29. **“Guitars from Neptune” - A Definitive Journey Into Danelectro-Mania**, Paul Bechtoldt & Doug Tulloch, A Backporch Publication, 1995.

HISTORY: TUBE AMPLIFIERS

1. **The Tube Amp Book, 4.1th Edition**, Aspen Pittman, Groove Tubes/GT Electronics/ Groove Tubes Audio, Sylmar, California, U.S.A., 1995/1993/1991/1988/1986..
2. **A Desktop Reference of Hip Vintage Guitar Amps**, Gerald Weber, Kendrick Books, Pflugerville, Texas, U.S.A., 1994.
3. **Amps! The Other Half of Rock ‘N’ Roll**, Ritchie Fliegler, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1993.
4. **The Art of the Amplifier**, Michael Doyle, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1996.
5. **Fender Amps: The First Fifty Years**, John Teagle and John Sprung, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1995.
6. **The Fender Amp Book**, John Morrish, GPI Books/Miller-Freeman Inc., San Francisco, California, U.S.A., 1995.
7. **The History of Marshall: The Illustrated Story of “The Sound of Rock”**, Michael Doyle, Hal Leonard Publishing Corporation, Milwaukee, Wisconsin, U.S.A., 1993.
8. **Tweed Technical Characteristics**, Mojo Musical Supply, Napa, California, U.S.A.
9. **Tweed Fender Schematic Book**, Fender Musical Instruments, Scottsdale, Arizona, U.S.A., 1999. Fender Part # 099-4997-000.

10. **Brown & White Fender Schematic Book**, Fender Musical Instruments, Scottsdale, Arizona, U.S.A., 1999. Fender Part # 099-4998-000.
11. **Blackface Fender Schematic Book**, Fender Musical Instruments, Scottsdale, Arizona, U.S.A., 1999. Fender Part # 099-4999-000.