

References

1.0 Structures

1.1 & 1.2 Lectures:

- Simplified Engineering for Architects and Builders, **Chapters 1, 2 & 3**, James Ambrose and Patrick Tripeny John Wiley & Sons, 12th edition, 2016
- Building Construction: Principles, Materials, and Systems, 2nd Edition, **Chapter 4**, Madan Mehta, Walter Scarborough, Diane Arm Priest; 2013.
- Structural Design: A Practical Guide for Architects, **Chapters 1, & 2**, James R. Underwood and Michele Chiuini John Wiley & Sons, 2nd edition, 2007

1.3 Lectures:

- Simplified Engineering for Architects and Builders, **Chapter 4**, James Ambrose and Patrick Tripeny John Wiley & Sons, 12th edition, 2016
- Building Construction: Principles, Materials, and Systems, 2nd Edition, **Chapter 4 & 11**, Madan Mehta, Walter Scarborough, Diane Arm Priest; 2013.
- Building Structures, **Chapters 8 & 9**, James Ambrose and Patrick Tripeny John Wiley & Sons, 3rd edition, 2011
- FEMA, Risk Management Series, Designing for Earthquakes, A Manual for Architects, **Chapters 2, 3, 4, 5, 8 & 9** FEMA 454 / December 2006.

2.0 Environment & Sustainability

2.1A & 2.1B Lectures

- Heating, Cooling, Lighting: Sustainable Design Methods for Architects, **Chapters 2.2, 2.10, 2.17, 2.18 3 & 4**, Norbert Lechner John Wiley & Sons, 4th edition, 2015
- Mechanical & Electrical Equipment for Buildings, **Chapters 2.4, 4.1, 4.2, 4.3, & 7**, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015
- Building Construction: Principles, Materials, and Systems, 2nd Edition **Chapters 5.1, 5.2, 5.3, 5.5, 5.6, 5.7, 5.8 (Thermal Properties)**

2.2A

- Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Norbert Lechner John Wiley & Sons, 4th edition, 2015 **Chapter 5**
- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 **Chapters 3.1, 3.2**

2.2B- Pt.1 & Pt.2

- Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Norbert Lechner John Wiley & Sons, 4th edition, 2015 **Chapter 6, Chapter 9 - Sections 9.18, 9.19, 9.20, Chapter 13 & Chapter 15 - Section 15.9**
- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 **Chapter 6 - Sections 6.1, 6.2, 6.3,6.4, 6.6, Chapter 7 - Section 7.5, Chapter 8**
- Sun, Wind, and Light: Architectural Design Strategies G.Z. Brown and Mark DeKay John Wiley & Sons, 3rd edition, 2014 **Part IV - Sections B1 & B5**



2.2C

- Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Norbert Lechner John Wiley & Sons, 4th edition, 2015
Chapter 7
- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015
Chapter 9
- Sun, Wind, and Light: Architectural Design Strategies G.Z. Brown and Mark DeKay John Wiley & Sons, 3rd edition, 2014
Part IV - Sections B3, B4, B7, B8 & B9

2.3

- Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Norbert Lechner John Wiley & Sons, 4th edition, 2015
Chapter 9
- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015
Chapter 6.5 & 6.6

2.4

- Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Norbert Lechner John Wiley & Sons, 4th edition, 2015
Chapter 10
- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015
Chapter 10, Sections 10.1, 10.2, 10.3, & 10.4



3.0 Mechanical Systems

3.1

- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 Chapter 12, Sections 12.1 to 12.9
Or, if you have MEEB 13th edition, Chapter 14, Sections 14.1 to 14.9

3.2

- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 Chapter 12, Sections 12.9 to 12.15
Or, if you have MEEB 13th edition, Chapter 14, Sections 14.9 to 14.15

3.3

- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 Chapter 12, Sections 12.15 to 12.17
Or, if you have MEEB 13th edition, Chapter 14, Sections 14.15 to 14.17
- The Architect's Studio Companion: Rules of Thumb for Preliminary Design Edward Allen and Joseph Iano, John Wiley & Sons, 6th edition or 7th edition), 2017, Section 4

3.4 & 3.5

- Mechanical & Electrical Equipment for Buildings, Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 Chapter 12, Sections 12.15 to 12.17
Or, if you have MEEB 13th edition, Chapter 14, Sections 14.17 to the end of the chapter.
- The Architect's Studio Companion: Rules of Thumb for Preliminary Design Edward Allen and Joseph Iano, John Wiley & Sons, 6th edition or 7th edition), 2017, Section 4



4.0 Site Analysis

4.1

- Planning and Urban Design Standards, Student Edition - Part 6 - Legal Foundations, Growth Management, Preservation, Conservation, and Reuse by American Planning Association, Frederick R. Steiner and Kent Butler, John Wiley & Sons, (2007)
- The Architect's Handbook of Professional Practice The American Institute of Architects John Wiley & Sons, 15th edition (2014), Chapter 13.2

4.2

- Mechanical & Electrical Equipment for Buildings (MEEB), Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 or 13th edition, 2019, Chapter 3, sections 3.3, 3.4, 3.5, 3.6, & 3.8
- Sun, Wind, and Light: Architectural Design Strategies G.Z. Brown and Mark DeKay John Wiley & Sons, 3rd edition, 2013 - Part-6
- Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture, Norbert Lechner and Patricia Andrasik, John Wiley & Sons, 5th edition, 2021, Chapter 5, Sections: 5.4 & 5.10, and Chapter 11, Sections: 11.3, 11.5, 11.8, & 11.9

5.0 Water & Plumbing

5.1

- Mechanical & Electrical Equipment for Buildings (MEEB), Walter T. Grondzik and Alison G. Kwok John Wiley & Sons, 12th edition, 2015 Chapter 18, sections 18.2, 18.4, 18.5, 18.6
- Plumbing, Electricity, Acoustics: Sustainable Design Methods for Architecture, Norbert Lechner, Wiley, 2012. Chapters 3.3, 3.4, 3.6, & 4.15
- Site Planning and Design Handbook, Thomas H. Russ, 2nd ed., McGraw-Hill, 2009. Chapter 8



