

ENG ME 519 Heat Transfer**Spring 2021**

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Text: John H. Lienhard, *A Heat Transfer Textbook*, 4th ed., Dover, 2011;
also available at <http://web.mit.edu/lienhard/www/ahtt.html>.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
1/25	Introduction to heat transfer	1.1–1.5
2/1	Heat diffusion equation	2.1–2.5
2/8	One-dimensional conduction	4.1–4.3
2/15	"	4.4–4.5
2/22	Multi-dimensional conduction	5.1–5.4
3/1	"	5.5–5.8
3/8	Laminar boundary layers	6.1–6.3
3/15	"	6.3–6.6
3/22	Turbulent boundary layers	6.7–6.8
3/29	Forced convection	7.1–7.4
4/5	"	7.5–7.7
4/12	Natural convection	8.1–8.3
4/19	Radiation heat transfer	10.1–10.3
4/26	"	10.4–10.6