

Differences between the 6th and 7th editions of “Fundamentals of Engineering Thermodynamics” by Moran & Shapiro.

6 TH EDITION	7 TH EDITION	Difference
5.1	5.1	
5.2	5.2	
5.3	5.3	
5.4	5.4	The 7 th edition has several paragraphs on the “Thermal Glider” on pp. 247 – 248. These are absent in the 6 th edition.
5.5	5.5	
5.6	5.6	
5.7	5.7	
5.8	5.8	
5.9	5.9	
5.10	5.10	
5.11	5.11	
6.1	6.1	
6.2	6.2	
6.3	6.3	
6.4	6.4	
6.5	6.5	
6.6	6.6	
6.7	6.7	
6.8	6.8	On the top of pg. 306 of the 7 th edition there is a section on “Breaking” the Second Law Has Implications for Nanotechnology, while on the top of pg. 281 of the 6 th edition there is a paragraph on A New Definition of Entropy.
6.9	6.9	
6.10	6.10	
6.11	6.11	
6.12	6.12	There is a paragraph at the end of this section in the 6 th edition on “Energy Star”. The 7 th edition doesn’t have this paragraph.
6.13	6.13	The 6 th edition has a paragraph about Coal-fired Power Plants on the top of pg. 307 while the 7 th edition has a paragraph “Bats and Wind Turbines” on the top of pg. 331.
8.1	8.1	There are two differences. First, there is a whole section about “Introducing power

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		<p>generation” from pp. 426 - 430 in the 7th edition that does not appear in the 6th edition.</p> <p>Second there are three figures and several paragraphs about pressurized-water nuclear vapor power plants, concentrating solar thermal vapor power, and geothermal vapor power, from pg. 431 - 433 in the 7th edition that does not appear in the 6th edition.</p>
8.2	8.2	
8.3	8.3	
8.4	8.4	
9.1	9.1	
9.2	9.2	
9.3	9.3	
9.4	9.4	
9.5	9.5	There is a paragraph at the end of this section about Natural Gas that appears on pg. 510 of the 7 th edition but not in the 6 th edition.
9.6	9.6	
9.7	9.7	
9.8 9.11	9.8	There is a subsection 9.8.4 (pp. 535-537) about Ericsson and Stirling Cycles in the 7 th edition. This appears in section 9.11 of the 6 th edition (pp. 497-499).
9.9	9.11	Section 9.9 in 6 th edition on Gas Turbines for Aircraft Propulsion corresponds to section 9.11 in the 7 th edition.
9.10	9.9	Section 9.9 in the 7 th edition (Gas Turbine-Based Combined Cycles) corresponds to section 9.10 of the 6 th edition.
10.1	10.1	
10.2	10.2	There is a paragraph at the end of this section about the p-h

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		diagram. It is on pg. 600 of the 7 th edition. The 6 th edition doesn't have this paragraph.
10.6	10.6	A heat pump cycle example exists at the end of this section on pg. 610 of the 7 th edition. The 6 th edition doesn't have this example.
10.7	10.7	There is a subsection 10.7.3 about Automotive Air Conditioning Using Carbon Dioxide on pp. 617 - 618 of the 7 th edition. The 6 th edition doesn't have this subsection.
11.1	11.1	
11.4	11.4	
11.5	11.5	There is a paragraph about propagation of elastic waves on pg. 658 of the 7 th edition. The 6 th edition doesn't have this paragraph.
11.7	11.7	
12.1	12.1	
12.2	12.2	
12.3	12.3	There is a table about property relations on a mass basis for binary ideal gas mixtures on pg. 713 of the 7 th edition. The 6 th edition doesn't have this table.
12.4	12.4	
12.5	12.5	There is a paragraph about humidity ratio and influenza on pg. 730 of the 7 th edition. The 6 th edition doesn't have this paragraph.
12.6	12.6	
12.7	12.7	
12.8	12.8	
12.9	12.9	
13.1	13.1	There are two differences. One is a paragraph about reliance on scarce oil supplies on pg. 712 of the 6 th edition. The 7 th edition doesn't have this paragraph. There is a subsection about Energy and Entropy Balances for

