



**OHIO**  
UNIVERSITY

## Independent and Distance Learning

### PHYSICS 252 CCE

#### Reading Assignment

**Text:** *Physics for Scientists and Engineers*, by Paul A. Tipler, 4th ed., W.H. Freeman, 1999

Chapter	Topics	Section
13	Fluids	Omit Viscous Flow
14	Oscillations	14-1 to 14-3, omit the rest
15	Waves Motion	All sections
16	Superposition and Standing Waves	16-1 and 16-2, omit the rest
17	Wave-Particle Duality and Quantum Physics	Omit entire chapter
18	Temperature and the Kinetic Theory of Gasses	All sections, omit Mean Free Path and Distributions of Molecular Speeds
19	Heat and the First Law of Thermodynamics	All sections
20	The Second Law of Thermodynamics	All sections
21	Thermal Properties and Processes	21-1 and 21-4, omit 21-2 and 21-3
22	The Electric Field I	All sections
23	The Electric Field II	All sections

## Problem Assignments

**Text:** *Physics for Scientists and Engineers*, by Paul A. Tipler, 4th ed., W.H. Freeman, 1999

<b>Chapter</b>	<b>Topics</b>	<b>Self-Study Problems</b>
13	Fluids	1, 11, 17, 31, 37, 41, 51, 53, 55
14	Oscillations	9, 13, 21, 25, 31, 37, 43, 53, 59
15	Waves Motion	5, 7, 27, 29, 41, 49, 57, 61, 67, 73, 79, 85
16	Superposition and Standing Waves	1, 7, 13, 19, 25, 29, 37, 43, 49, 55, 61, 67
18	Temperature and the Kinetic Theory of Gasses	1, 7, 13, 19, 25, 27, 31, 41, 65, 67, 69
19	Heat and the First Law of Thermodynamics	3, 7, 13, 19, 25, 27, 31, 39, 43, 47, 57, 67, 81
20	The Second Law of Thermodynamics	5, 7, 9, 13, 19, 21, 25, 31, 37, 43, 49, 73
21	Thermal Properties and Processes	3, 7, 13, 27, 29, 33, 39, 55, 59
22	The Electric Field I	1, 3, 7, 13, 15, 19, 25, 31, 37, 43, 49, 51, 77
23	The Electric Field II	1, 3, 7, 13, 21, 25, 27, 31, 43, 49, 53, 55, 57