

Part II

Monday

Chapter 25:

Electrical Charge and Coulomb's Law

Exercises:

7, 12, 13, 16*, 19*, 21.

Problems:

4*, 6*, 8*, 11*.

Chapter 26: Electric Field

Exercises:

9, 11*, 16*, 18*, 27, 29, 31, 34, 39, 40.

Problems:

2, 3*, 4*, 5, 8, 10, 11, 12*.

Tuesday

Chapter 27: Gauss' Law

Exercises:

3, 7, 8, 9, 14, 15, 18*, 21, 25*.

Problems:

3*, 4*, 5*, 6*, 7, 8, 11, 14*, 15*, 17*, 18*.

Wednesday

Chapter 28:

Electrical Potential Energy and Potential

Exercises:

3, 7, 9, 13, 15, 20, 25, 40, 41, 46, 47.

Problems:

3*, 4*, 6, 7*, 8, 9*, 10*, 12*, 13*.

Chapter 29: Electrical Properties of Material

Exercises:

9, 11, 15, 19*, 24, 29*, 31.

Problems:

6, 9*, 12, 14*, 15*, 16.

Thursday

Chapter 30: Capacitance

Exercises:

2, 8, 19*, 25, 27, 31, 34, 35, 37.

Problems:

2, 3, 4*, 5*, 8*, 10*, 11, 14, 16*, 18, 19, 20*, 21*, 24.

Chapter 31: DC Circuits

Exercises:

3, 5, 11, 12, 14, 19, 23, 25, 28, 32, 40, 47*, 49.

Problems:

4*, 5*, 6, 9, 12, 15*, 18, 19.

Friday

Chapter 32: Magnetic Field

Exercises:

1, 8, 15, 17, 21*, 23, 25*, 29*, 32*, 34, 37.

Problems:

4, 5, 6, 7, 10*, 11, 15*, 17*, 18*, 19*.

Chapter 33: Magnetic Field of a Current

Exercises:

1, 10, 12*, 13*, 14, 15*, 17, 20, 21*, 23*, 34*, 35*.

Problems:

1, 2, 4*, 5*, 6, 8*, 11, 12*, 14*.

Monday

Chapter 34: Faraday's Law of Induction

Exercises:

8, 10, 11, 13, 17, 18, 22, 23*, 24*, 26, 31.

Problems:

1*, 3, 5, 6*, 8, 9*, 10*, 11, 12, 14*.

Tuesday

Chapter 35: Magnetic Properties of Materials

Exercises:

3, 7, 8*, 11*, 15, 21, 23, 24, 31.

Problems:

1*, 2*, 3, 7*.

Wednesday

Chapter 36: Inductance

Exercises:

9, 10, 14, 30, 41, 44, 50.

Problems:

1, 3*, 5*, 6*, 9*, 11*, 13*.

Chapter 37: AC Circuits

Exercises:

10, 14, 22, 23, 25, 26.

Problems:

4*, 7, 8, 11.

Thursday

Chapter 38: Maxwell's Equations

Exercises:

5, 9, 23, 24, 30, 37, 39, 41, 43.

Problems:

1, 4*, 5, 7, 11*, 12*, 14*, 16*.

Friday

Chapter 39: Light Waves

Exercises:

10*, 12*, 17, 19, 22, 25*, 31, 32*, 36*, 38*, 43, 48*, 51.

Problems:

2*, 3, 4, 6*, 7**, 8, 9, 10, 12.

Monday

Chapter 40: Mirrors and Lenses

Exercises:

4, 5, 7*, 12, 17*, 19*, 20, 25, 30, 37.

Problems:

1, 5, 7, 9, 10*, 12*, 13.

Chapter 41: Interference

Exercises:

19, 20, 23*, 27, 29*, 30, 33, 36*.

Problems:

1, 6, 7*, 10, 11*.

Tuesday

Chapter 42: Diffraction

Exercises:

7, 11, 15, 17, 21*, 23, 27.

Problems:

2*, 4, 5*, 7.

Chapter 43: Gratings and Spectra

Exercises:

5, 12, 14, 15, 17, 27, 32, 33.

Problems:

1*, 2*, 3*, 5**, 7.

Wednesday

Chapter 44: Polarization

Exercises:

5, 10, 14, 15*.

Problems:

1, 2, 3, 5*, 6, 7.

Chapter 45: Nature of Light

Exercises:

7, 10, 15, 17, 19, 23, 32, 33, 37, 41.

Problems:

1*, 3*, 4, 5*, 6, 8*, 9, 11*.

Thursday

Chapter 46: Nature of Matter

Exercises:

7, 10, 12, 13, 17, 19, 21, 26, 30.

Problems:

1, 2*, 4, 6*.

Chapter 47: Electrons in Potential Wells

Exercises:

5, 7, 17, 20, 21, 23, 27, 35*, 44.

Problems:

1, 2*, 7*, 8*, 9*, 12*.

Friday

Chapter 48: Atomic Structure

Exercises:

5, 9, 11, 14*, 15, 19*, 21, 25, 26, 33, 35*.

Problems:

1*, 3*, 4*, 7*, 10.

Chapter 49: Electrical Conduction in Solids

Exercises:

5, 9, 11*, 16, 17, 19*, 23, 25, 27*, 29, 34*, 39*.

Problems:

1*, 2*, 4*, 5*, 6*.

Monday

Chapter 50: Nuclear Physics

Exercises:

6, 7, 9, 12, 14, 25, 27, 30*, 34, 37, 38*, 51*, 53, 56*, 60*.

Problems:

1, 2, 3*, 4*, 5*, 7*, 11*, 16, 17, 18.

Chapter 51: Energy from the Nucleus

Exercises:

7, 11, 15*, 17, 21, 25*, 31, 39, 45, 46.

Problems:

2, 4, 5, 7, 9.

Tuesday

Chapter 52: Particle Physics and Cosmology

Exercises:

5, 6, 8*, 9*, 11*, 13, 14*, 15*, 18, 19, 20, 25.

Problems:

4, 5, 6*, 7*.