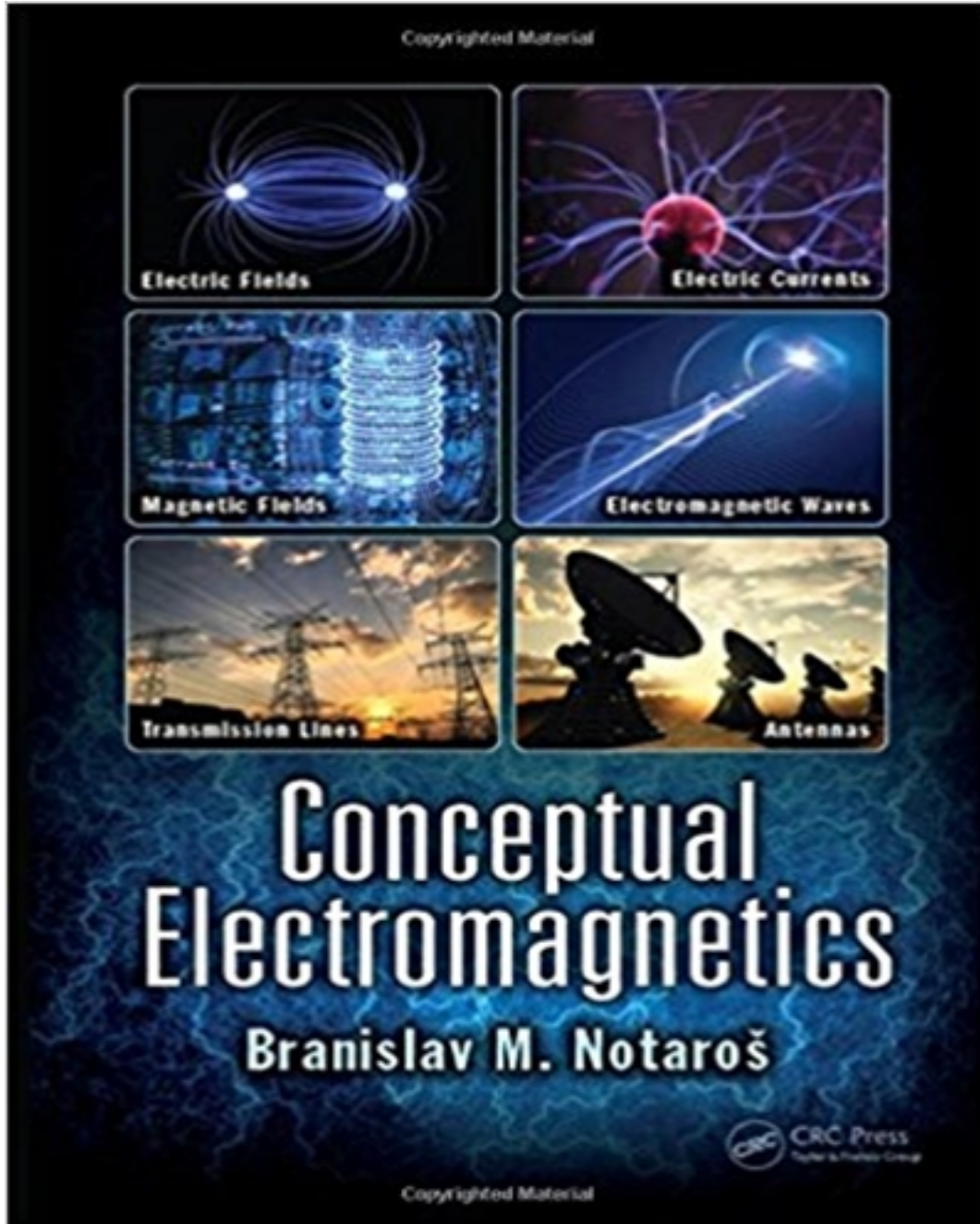


# Solutions for Conceptual Electromagnetics 1st Edition by Notaro+í

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# Solutions

## 2 ELECTROSTATIC FIELD IN DIELECTRICS

### 2.1 Polarization of Dielectrics

CONCEPTUAL QUESTION 2.1	Correct Answer: (C)
CONCEPTUAL QUESTION 2.2	Correct Answer: (B)
CONCEPTUAL QUESTION 2.3	Correct Answer: (A)
CONCEPTUAL QUESTION 2.4	Correct Answer: (B)
CONCEPTUAL QUESTION 2.5	Correct Answer: (B)
CONCEPTUAL QUESTION 2.6	Correct Answer: (D)
CONCEPTUAL QUESTION 2.7	Correct Answer: (B)
CONCEPTUAL QUESTION 2.8	Correct Answer: (A)
CONCEPTUAL QUESTION 2.9	Correct Answer: (B)
CONCEPTUAL QUESTION 2.10	Correct Answer: (D)
CONCEPTUAL QUESTION 2.11	Correct Answer: (C)
CONCEPTUAL QUESTION 2.12	Correct Answer: (B)

### 2.2 Generalized Gauss' Law and Permittivity

CONCEPTUAL QUESTION 2.13	Correct Answer: (D)
CONCEPTUAL QUESTION 2.14	Correct Answer: (C)
CONCEPTUAL QUESTION 2.15	Correct Answer: (E)
CONCEPTUAL QUESTION 2.16	Correct Answer: (A)
CONCEPTUAL QUESTION 2.17	Correct Answer: (D)
CONCEPTUAL QUESTION 2.18	Correct Answer: (D)
CONCEPTUAL QUESTION 2.19	Correct Answer: (A)
CONCEPTUAL QUESTION 2.20	Correct Answer: (D)

## 2.3 Dielectric–Dielectric Boundary Conditions

**CONCEPTUAL QUESTION 2.21** Correct Answer: (A)

**CONCEPTUAL QUESTION 2.22** Correct Answer: (C)

## 2.4 Analysis of Capacitors with Homogeneous Dielectrics

**CONCEPTUAL QUESTION 2.23** Correct Answer: (C)

**CONCEPTUAL QUESTION 2.24** Correct Answer: (A)

**CONCEPTUAL QUESTION 2.25** Correct Answer: (A)

**CONCEPTUAL QUESTION 2.26** Correct Answer: (B)

**CONCEPTUAL QUESTION 2.27** Correct Answer: (B)

**CONCEPTUAL QUESTION 2.28** Correct Answer: (B)

**CONCEPTUAL QUESTION 2.29** Correct Answer: (C)

**CONCEPTUAL QUESTION 2.30** Correct Answer: (B)

**CONCEPTUAL QUESTION 2.31** Correct Answer: (E)

## 2.5 Analysis of Capacitors with Inhomogeneous Dielectrics

**CONCEPTUAL QUESTION 2.32** Correct Answer: (C)

**CONCEPTUAL QUESTION 2.33** Correct Answer: (E)

**CONCEPTUAL QUESTION 2.34** Correct Answer: (B)

**CONCEPTUAL QUESTION 2.35** Correct Answer: (D)

**CONCEPTUAL QUESTION 2.36** Correct Answer: (B)

**CONCEPTUAL QUESTION 2.37** Correct Answer: (C)

**CONCEPTUAL QUESTION 2.38** Correct Answer: (A)

## 2.6 Energy of an Electrostatic System

CONCEPTUAL QUESTION 2.39 Correct Answer: (A)

CONCEPTUAL QUESTION 2.40 Correct Answer: (B)

CONCEPTUAL QUESTION 2.41 Correct Answer: (B)

CONCEPTUAL QUESTION 2.42 Correct Answer: (D)

CONCEPTUAL QUESTION 2.43 Correct Answer: (B)

## 2.7 Dielectric Breakdown in Electrostatic Systems

CONCEPTUAL QUESTION 2.44 Correct Answer: (A)

CONCEPTUAL QUESTION 2.45 Correct Answer: (B)

CONCEPTUAL QUESTION 2.46 Correct Answer: (D)

CONCEPTUAL QUESTION 2.47 Correct Answer: (B)