Preface and Chapter 1 Podcasts

Preface

http://www.danfleisch.com/maxwell/audio/Chapter1/Preface1.mp3

1. The integral form of Gauss's law

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Intro.mp3

2. The electric field

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Efield.mp3

3. The dot product

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Dotprod.mp3

4. The unit normal vector

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Unitnorm.mp3

5. The component of E normal to a surface

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Edotn.mp3

6. The surface integral

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Surfinteg.mp3

7. The flux of a vector field

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Adotnda.mp3

8. The electric flux through a closed surface

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 IntEdotnda.mp3

9. The enclosed charge

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 qenc.mp3

10. The permittivity of free space - epsilon naught

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 epsilon naught.mp3

11. The differential form of Gauss's law

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Differential Intro.mp3

12. Nabla - the del operator

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Nabla.mp3

13. Del dot - the divergence

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 Deldot.mp3

14. The divergence of the electric field

http://www.danfleisch.com/maxwell/audio/Chapter1/Ch1 DeldotE.mp3

Chapter 2 Podcasts

1. The integral form of Gauss's law

http://www.danfleisch.com/maxwell/audio/Chapter2/Ch2 Intro.mp3

2. The magnetic field

http://www.danfleisch.com/maxwell/audio/Chapter2/Ch2 Bfield.mp3

3. The magnetic flux

http://www.danfleisch.com/maxwell/audio/Chapter2/Ch2 Magflux.mp3

4. The differential form of Gauss's law

http://www.danfleisch.com/maxwell/audio/Chapter2/Ch2 Differential Intro.mp3

5. The divergence of the magnetic field

http://www.danfleisch.com/maxwell/audio/Chapter2/Ch2 DeldotB.mp3

Chapter 3 Podcasts

1. The integral form of Faraday's law

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 Intro.mp3

2. The induced electric field

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 InducedEfield.mp3

3. The line integral

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 Lineintegral.mp3

4. The path integral of a vector field

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 Pathintvecfield.mp3

5. The electric field circulation

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 Efieldcirc.mp3

6. The rate of change of flux

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 RateChangeFlux.mp3

7. Lenz's Law

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 LenzLaw.mp3

8. The differential form of Faraday's law

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3_DiffIntro.mp3

9. Del cross - the curl

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 DelCross.mp3

10. The curl of the electric field

http://www.danfleisch.com/maxwell/audio/Chapter3/Ch3 CurlE.mp3

Chapter 4 Podcasts

1. The integral form of the Ampere-Maxwell law

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 Intro.mp3

2. The magnetic field circulation

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 MagFieldCirc.mp3

3. The permeability of free space

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 Permeability.mp3

4. The enclosed electric current

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 Enclosed Current.mp3

5. The rate of change of flux

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 RateChangeFlux.mp3

6. The differential form of the Ampere-Maxwell law

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 Intro diff AmpereMaxwell.mp3

7. The curl of the magnetic field

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 CurlMagField.mp3

8. The electric current density

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 CurrentDensity.mp3

9. The displacement current density

http://www.danfleisch.com/maxwell/audio/Chapter4/Ch4 Displacement current density1.mp3