The Plasma Phase

Chapter 1. An experiment - measure and understand transport processes in a plasma

Three important vugraphs
What we have just talked about
The diagnostics

Chapter 2. An introduction to plasma physics

Occurrence
Temperature
Debye Length
Plasma Oscillations
Discreteness
Collective versus individual behavior
Applications of Plasma Physics
Fundamental Physics Studies at Texas
Research at the Fusion Research Center
Some notes on electrostatics
Notes on identities

Chapter 3. Magnetic diagnostics for plasmas

Basic equations
Integration
Alternate measurement techniques
Experimental techniques
Plasma current (the Rogowski coil)
Loop volts
Deductions from loop voltage
Position and $b_I + l_i/2$ for a circular equilibrium
Modified Rogowski and saddle coils
Moments
- position
- shape
- $b_I + l_i/2$

Chapter 6. Electromagnetic radiation from free electrons

Chapter 7. Electromagnetic radiation from electron ion collisions (bremsstrahlung, recombination)