Electricity and magnetism 2

Arthur Bragg

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Topic	Concept	Example 1	Example 2
1. Electrodynamics	✓		
2. Conservation laws	✓		
3. Electromagnetic waves			
4. Potentials and fields	~		
5. Radiation	~		
6. Relativity			

1. Electrodynamics

2. Conservation laws

3. Electromagnetic waves

- 1. What is the equation for the electric field vector of an electromagnetic wave?
- 2. What is the equation for the magnetic field vector of an electromagnetic wave?
- 3. What is the equation for an electromagnetic wave?
- 4. What is the Poynting vector?
- 5. What is the equation for the Poynting vector?
- 6. What are two things that the Poynting vector points to?
- 7. What is Poynting's theorem? Write in two different ways.
- 4. Potentials and fields
- 5. Radiation
- 6. Relativity