Electricity Crisscross

ACROSS
1  The direction of field lines can be found with a _____-hand rule
7  A rotating part inside a 12-Down
9  Charge of a 14-Across
10 Kirchhoff’s Rules are the junction rule and the _____ rule
11 The A in “AC”
14 A particle whose movement creates electricity
16 The D in “DC”
17 It induces a 6-Down whenever it moves near a wire
20 A property of a material that impedes electricity flowing
22 The unit of I (6-Down), for short
25 Shape of the wire in a solenoid
26 A material through which electricity flows well
27 Device that stores electrical energy
29 A simple device that allows a 21-Down to be manually interrupted
31 The unit of Φ (magnetic flux)
33 What opposite 28-Acrosses do
34 A device that is designed to fail when 6-Down is high to protect an electrical system

DOWN
1  A source is a 24-Down _____ when calculating voltage
2  The unit of B (a 17-Across’s field strength); also the scientist who advocated AC over Edison’s DC
3  The total R for all parts of a 21 down is called its _____ resistance
4  Any load is a 24-Down _____ when calculating voltage
5  Opposite of series when describing a 21-Down
6  A measure of how much electricity flows in a given amount of time
8  When a power line loses energy due to 20-Across, most of the energy is lost as _____
10 Room where a physics experiment may take place
12 A device that produces electricity
13 A device that measures power consumption in a home
15 Describes a wire that has electricity flowing through it
18 The two ends of a 27-Across
19 His law describes electricity induced with a 17-Across
21 Electricity will only flow around a closed _____
23 One end of a 17-Across
24 _____ difference is synonym of voltage
25 A unit of q (28-Down)
28 A property of a particle that causes it to move near other particles that have it
30 A unit of power
32 It causes 28-Down to move; equal to the voltage across a power source, such as a 27-Across [abbr.]
SOLUTION

Across.
(1) right
(7) armature
(9) negative
(10) loop
(11) alternating
(14) electron
(16) direct
(17) magnet
(20) resistance
(22) amp
(25) coil
(26) conductor
(27) battery
(29) switch
(31) weber
(33) attract
(34) fuse

Down.
(1) rise
(2) tesla
(3) equivalent
(4) drop
(5) parallel
(6) current
(8) heat
(10) laboratory
(12) generator
(13) meter
(15) live
(18) terminals
(19) Faraday
(21) circuit
(23) pole
(24) potential
(25) coulomb
(28) charge
(30) watt
(32) emf