

INDEX

- Absolute Temperature, 322; relation to pressure and volume of gas, 322; units, 388
- Absorption, selective, 279; and radiation, 410
- Accelerated motion, laws of, 387
- Acceleration, 383; and mass, 385; of gravity (g), 385, 390
- Accommodation of eye, 262
- Action and reaction, 24, 382
- Aeroplane, 313; stability of, 314
- After-image, 287
- Air, weight of, 77; cushion, 83; expansion of, 111; sound travels in, 222; coefficient of expansion of, 320; increase of pressure by heating, 321; thermometer, 323
- Alpha, rays, 416
- Alternating current, 193
- Ammeter, 169, 304
- Ampere, unit of current strength, 203
- Amplitude, of wave, 227
- Angle, visual, 263; of incidence, 267, 360; of reflection, 267; of refraction, 360; critical, 363; lens, 259, 356, 357, 359, 368
- Anode, in electrolysis, 202
- Antenna, 346
- Aperture, of mirror, 369
- Apparent size, 251, 263
- Archimedes', principle, 87
- Aristotle, 77, 112
- Arm of force, 45
- Armature, 163; motor, 177; dynamo, 102
- Atmospheric pressure, 78, 85; calculation of, 86
- Atomic structure, 414
- Atoms, 405
- Axis, of a beam of light, 254; of a lens, 258; principal of mirror, 369
- Ball bearings, 308
- Barometer, 85; normal pressure, 119
- Balloons, 89
- Becquerel, rays, 415
- Beta rays, 416
- Beats, of tones, 243
- Bell, electric, 157, 163, 166, 348
- Biplanes, 315
- Boats, 89
- Boiler, flash, 325
- Boiling, 121; point, 121, 129; point and pressure, 129
- Boyle, Robert, law of, 84, 231, 323, 405
- Brake, test, 104; horsepower, 105; of electric motor, 211
- British Thermal Unit, 124; equivalent in foot pounds, 151; in watt-seconds, 213; in kilowatt-hours, 214
- Burners, relative efficiency, 141
- Calorie, gram, 124; equivalent in gram-centimeters, 151; relation to watt-second, 213
- Camera, pin-hole, 253; photographic, 356
- Candle-power, 269
- Capacity, of condenser, 340; effect on oscillation, 343
- Capillarity, 401
- Cathode, in electrolysis, 202; rays, 412
- Cell, simple voltaic, 158; gravity, 160; Leclanche, 160; dry, 161; in series, 172; in parallel, 209
- Center of gravity, 18, 49, 91, 112
- Centigrade thermometer, 119; relation to absolute, 322
- Centrifugal force, 302
- Charges, electrostatic, 335; opposite arc equal, 337; induced, 338;