

MeSH Tree Structures - 2012

G1 - PHYSICAL PHENOMENA

Physical Phenomena

| | | | |
|---|---------------------------|----------|----------|
| Physical Phenomena | G1 | | |
| Astronomical Phenomena | G1.60 | | |
| Astronomical Objects | G1.60.249 | | |
| Extraterrestrial Environment | G1.60.249.159 | G16.500. | |
| Cosmic Dust | G1.60.249.159.200 | D20.633. | G16.500. |
| Galaxies | G1.60.249.320 | | |
| Meteoroids | G1.60.249.500 | | |
| Planets | G1.60.249.680 | G1.60. | |
| Solar System | G1.60.249.730 | | |
| Minor Planets | G1.60.249.730.600 | | |
| Pluto | G1.60.249.730.600.500 | | |
| Planets | G1.60.249.730.700 | G1.60. | |
| Earth (Planet) | G1.60.249.730.700.200 | | |
| Moon | G1.60.249.730.700.200.500 | | |
| Jupiter | G1.60.249.730.700.412 | | |
| Mars | G1.60.249.730.700.625 | | |
| Mercury (Planet) | G1.60.249.730.700.762 | | |
| Neptune | G1.60.249.730.700.796 | | |
| Saturn | G1.60.249.730.700.831 | | |
| Uranus | G1.60.249.730.700.865 | | |
| Venus | G1.60.249.730.700.900 | | |
| Stars, Celestial | G1.60.249.750 | | |
| Astronomical Processes | G1.60.374 | G1.595. | |
| Cosmic Radiation | G1.60.374.134 | G1.595. | G1.750. |
| | | G16.500. | N6.230. |
| Evolution, Planetary | G1.60.374.270 | G1.311. | G1.595. |
| | | G1.595. | |
| Evolution, Chemical | G1.60.374.270.500 | G1.595. | G2.111. |
| | | G2.149. | G2.149. |
| Solar Activity | G1.60.374.800 | G1.595. | |
| Biophysical Phenomena | G1.154 | | |
| Biomechanics | G1.154.90 | G1.374. | |
| Biophysical Processes | G1.154.100 | G1.595. | |
| Energy Transfer | G1.154.100.240 | G1.595. | G2.111. |
| | | G2.149. | G2.149. |
| | | G2.842. | |
| Fluorescence Resonance Energy Transfer | G1.154.100.240.280 | E5.196. | G1.595. |
| | | G2.111. | G2.149. |
| Linear Energy Transfer | G1.154.100.240.400 | G1.595. | G2.111. |
| | | G2.149. | G2.149. |
| | | G2.842. | |
| Facilitated Diffusion | G1.154.100.280 | G1.595. | G1.595. |
| | | G2.149. | G2.842. |
| | | G3.495. | |
| Mechanotransduction, Cellular | G1.154.100.440 | G1.595. | G2.111. |
| | | G2.149. | G4.299. |
| Osmosis | G1.154.100.600 | G1.595. | G2.111. |
| | | G2.149. | G2.149. |
| | | G2.149. | G2.685. |
| | | G2.842. | G2.842. |
| Protein Folding | G1.154.100.640 | G1.595. | G2.111. |
| | | G2.149. | |
| Protein Refolding | G1.154.100.640.501 | E5.790 | G1.595. |
| | | G2.111. | G2.149. |
| Protein Unfolding | G1.154.100.640.750 | E5.793 | G1.595. |
| | | G2.111. | G2.149. |
| Protein Denaturation | G1.154.100.640.750.500 | E5.793. | G1.595. |
| | | G2.111. | G2.149. |

G1 - PHYSICAL PHENOMENA

Physical Phenomena

Biophysical Phenomena

Biophysical Processes

RNA Folding

RNA Folding

G1.154.100.820

G1.595.

G2.111.

G2.111.

G2.149.

G5.360.

Membrane Fluidity

G1.154.500

G2.111.

G4.570

Membrane Potentials

G1.154.535

G4.580

G7.265.

G11.561.

Seed Dispersal

G1.154.767

G15.744.

G15.808

Elementary Particles

Electrons

G1.249

Heavy Ions

G1.249.335

G1.358.

Mesons

G1.249.467

Neutrons

G1.249.600

Fast Neutrons

G1.249.645

Phonons

G1.249.645.368

G1.750.

Photons

G1.249.675

G1.358.

G1.590.

G1.750.

G1.750.

Protons

G1.249.765

D1.248.

D1.435.

Geological Phenomena

Caves

G1.311

Geologic Sediments

G1.311.169

G16.500.

N6.230.

Geological Processes

G1.311.330

G16.500.

Avalanches

G1.311.340

G1.595.

Earthquakes

G1.311.340.111

G1.595.

Evolution, Planetary

G1.311.340.224

G1.595.

G1.60.

G1.595.

Landslides

G1.311.340.449

G1.595.

Tidal Waves

G1.311.340.674

G1.595.

Tsunamis

G1.311.340.787

G16.500.

N6.230.

Volcanic Eruptions

G1.311.340.843

G1.595.

Water Cycle

G1.311.340.900

G1.595.

Groundwater

G1.311.340.950

G16.500.

Natural Springs

G1.311.355

G16.500.

N6.230.

Hot Springs

G1.311.355.750

G16.500.

N6.230.

Hydrothermal Vents

G1.311.355.750.500

G16.500.

N6.230.

Water Wells

G1.311.355.750.500.400

G16.500.

N6.230.

Ice Cover

G1.311.355.875

N6.850.

Lakes

G1.311.400

G16.500.

N6.230.

Oceans and Seas

G1.311.580

G16.500.

N6.230.

G1.311.625

G16.500.

N6.230.

Z1.756

Bays

G1.311.625.80

N6.230.

Oil and Gas Fields

G1.311.687

Ponds

G1.311.718

G16.500.

N6.230.

Rivers

G1.311.750

G16.500.

N6.230.

Soil

G1.311.820

D20.721

G16.500.

N6.230.

Hydrodynamics

G1.342

Magnetic Phenomena

G1.358

Electromagnetic Phenomena

G1.358.500

Electricity

G1.358.500.249

Electric Capacitance

G1.358.500.249.270

Electric Conductivity

G1.358.500.249.277

Electric Impedance

G1.358.500.249.277.350

Static Electricity

G1.358.500.249.820

Electromagnetic Fields

G1.358.500.260

G1.358.

Electromagnetic Radiation

G1.358.500.505

G1.750.

Gamma Rays

G1.358.500.505.300

G1.750.

G1.750.

Light

G1.358.500.505.650

G1.590.

G1.750.

G1.750.

G1 - PHYSICAL PHENOMENA

Physical Phenomena

Magnetic Phenomena

Electromagnetic Phenomena

Electromagnetic Radiation

Light

Incandescence

Incandescence

G1.358.500.505.650.440

G1.590.

G1.750.

G1.750.

Infrared Rays

G1.358.500.505.650.552

G1.590.

G1.750.

G1.750.

G16.500.

N6.230.

Luminescence

G1.358.500.505.650.665

G1.590.

G1.750.

G1.750.

Fluorescence

G1.358.500.505.650.665.500

G1.590.

Photons

G1.358.500.505.650.782

G1.249.

G1.590.

G1.750.

G1.750.

Sunlight

G1.358.500.505.650.836

G1.750.

G1.750.

G16.500.

G16.500.

N6.230.

Ultraviolet Rays

G1.358.500.505.650.891

G1.590.

G1.750.

G1.750.

G16.500.

G16.500.

G16.500.

N6.230.

Radio Waves

G1.358.500.505.810

G1.750.

G1.750.

Microwaves

G1.358.500.505.810.500

G1.750.

G1.750.

Terahertz Radiation

G1.358.500.505.890

G1.750.

G1.750.

X-Rays

G1.358.500.505.970

G1.750.

G1.750.

Electrons

G1.358.500.750

G1.249.

Magnetic Fields

G1.358.750

Electromagnetic Fields

G1.358.750.500

G1.358.

Mechanical Phenomena

Biomechanics

G1.374

Compressive Strength

G1.374.89

G1.154.

Elasticity

G1.374.180

Compliance

G1.374.590

Elastic Modulus

G1.374.590.210

Friction

G1.374.590.605

Hardness

G1.374.618

Hardness Tests

G1.374.647

E5.417

Kinetics

G1.374.647.457

G2.111.

Mechanical Processes

G1.374.661

Lifting

G1.374.676

G1.595.

Stress, Mechanical

G1.374.676.530

G1.595.

Torsion, Mechanical

G1.374.676.830

G1.595.

Torque

G1.374.676.860

G1.595.

Vibration

G1.374.676.860.500

G1.595.

Weight-Bearing

G1.374.676.930

G1.595.

Pliability

G1.374.676.965

G1.595.

Porosity

G1.374.705

Pressure

G1.374.710

Decompression

G1.374.715

E2.278

Decompression, Explosive

G1.374.715.250

Hydrostatic Pressure

G1.374.715.250.500

Osmotic Pressure

G1.374.715.352

G2.640.

G2.685.

G2.842.

G2.842.

Partial Pressure

G1.374.715.578

Vacuum

G1.374.715.714

G16.500.

N6.230.

Vapor Pressure

G1.374.715.902

Shear Strength

G1.374.715.951

Tensile Strength

G1.374.820

Optical Phenomena

Anisotropy

G1.374.850

G1.590.

Birefringence

G1.590.40

G2.842.

Light

G1.590.80

G1.358.

G1.750.

G1.750.

G1 - PHYSICAL PHENOMENA

Physical Phenomena
Optical Phenomena
Light
Color

| | | | |
|-------------------------|--------------------|----------|----------|
| Color | G1.590.540.199 | | |
| Darkness | G1.590.540.233 | | |
| Glare | G1.590.540.333 | G14.400 | |
| Incandescence | G1.590.540.440 | G1.358. | G1.750. |
| | | G1.750. | |
| Infrared Rays | G1.590.540.552 | G1.358. | G1.750. |
| | | G1.750. | G16.500. |
| | | G16.500. | N6.230. |
| Luminescence | G1.590.540.665 | G1.358. | G1.750. |
| | | G1.750. | |
| Fluorescence | G1.590.540.665.500 | G1.358. | |
| Photons | G1.590.540.782 | G1.249. | G1.358. |
| | | G1.750. | G1.750. |
| Ultraviolet Rays | G1.590.540.891 | G1.358. | G1.750. |
| | | G1.750. | G1.750. |
| | | G16.500. | G16.500. |
| | | N6.230. | |

| | | | |
|---------------------------|----------------|---------|---------|
| Optical Processes | G1.590.770 | G1.595. | |
| Optical Rotation | G1.590.770.640 | G1.595. | |
| Refraction, Ocular | G1.590.770.760 | E1.370. | G1.595. |
| | | G14.760 | |

| | | | |
|---|---------------------------|----------|---------|
| Physical Processes | G1.595 | | |
| Astronomical Processes | G1.595.60 | G1.60. | |
| Cosmic Radiation | G1.595.60.134 | G1.60. | G1.750. |
| | | G16.500. | N6.230. |
| Evolution, Planetary | G1.595.60.270 | G1.60. | G1.311. |
| | | G1.595. | |
| Evolution, Chemical | G1.595.60.270.500 | G1.60. | G2.111. |
| | | G2.149. | G2.149. |
| Gravitation | G1.595.60.535 | | |
| Gravity, Altered | G1.595.60.535.369 | | |
| Hypergravity | G1.595.60.535.369.300 | | |
| Hypogravity | G1.595.60.535.369.400 | | |
| Weightlessness | G1.595.60.535.369.400.900 | | |
| Solar Activity | G1.595.60.800 | G1.60. | |
| Biophysical Processes | G1.595.100 | G1.154. | |
| Energy Transfer | G1.595.100.240 | G1.154. | G2.111. |
| | | G2.149. | G2.149. |
| | | G2.842. | |
| Fluorescence Resonance Energy Transfer | G1.595.100.240.280 | E5.196. | G1.154. |
| | | G2.111. | G2.149. |
| Linear Energy Transfer | G1.595.100.240.400 | G1.154. | G2.111. |
| | | G2.149. | G2.149. |
| | | G2.842. | |
| Facilitated Diffusion | G1.595.100.280 | G1.154. | G1.595. |
| | | G2.149. | G2.842. |
| | | G3.495. | |
| Mechanotransduction, Cellular | G1.595.100.440 | G1.154. | G2.111. |
| | | G2.149. | G4.299. |
| Osmosis | G1.595.100.600 | G1.154. | G2.111. |
| | | G2.149. | G2.149. |
| | | G2.149. | G2.685. |
| | | G2.842. | G2.842. |
| Protein Folding | G1.595.100.640 | G1.154. | G2.111. |
| | | G2.149. | |
| Protein Refolding | G1.595.100.640.501 | E5.790 | G1.154. |
| | | G2.111. | G2.149. |
| Protein Unfolding | G1.595.100.640.750 | E5.793 | G1.154. |
| | | G2.111. | G2.149. |

G1 - PHYSICAL PHENOMENA

| | | | | |
|---|------------------------|--|---------|---------|
| Physical Phenomena | | | | |
| Physical Processes | | | | |
| Biophysical Processes | | | | |
| Protein Folding | | | | |
| Protein Unfolding | | | | |
| Protein Denaturation | | | | |
| Protein Denaturation | G1.595.100.640.750.500 | | E5.793. | G1.154. |
| RNA Folding | G1.595.100.820 | | G2.111. | G2.149. |
| | | | G1.154. | G2.111. |
| | | | G2.111. | G2.149. |
| | | | G5.360. | |
| Diffusion | G1.595.200 | | G2.149. | G2.842. |
| Facilitated Diffusion | G1.595.200.374 | | G1.154. | G1.595. |
| | | | G2.149. | G2.842. |
| | | | G3.495. | |
| Thermal Diffusion | G1.595.200.750 | | G2.149. | G2.842. |
| Doppler Effect | G1.595.210 | | | |
| Elementary Particle Interactions | G1.595.240 | | | |
| Filtration | G1.595.280 | | E5.196. | G2.149. |
| | | | G2.842. | |
| Ultrafiltration | G1.595.280.807 | | E4.292. | E5.196. |
| | | | G2.149. | G2.842. |
| Geological Processes | G1.595.340 | | G1.311. | |
| Avalanches | G1.595.340.111 | | G1.311. | |
| Earthquakes | G1.595.340.224 | | G1.311. | |
| Evolution, Planetary | G1.595.340.449 | | G1.60. | G1.311. |
| | | | G1.595. | |
| Landslides | G1.595.340.674 | | G1.311. | |
| Tsunamis | G1.595.340.787 | | G1.311. | |
| Volcanic Eruptions | G1.595.340.900 | | G1.311. | |
| Mechanical Processes | G1.595.540 | | G1.374. | |
| Lifting | G1.595.540.530 | | G1.374. | |
| Stress, Mechanical | G1.595.540.830 | | G1.374. | |
| Torsion, Mechanical | G1.595.540.860 | | G1.374. | |
| Torque | G1.595.540.860.500 | | G1.374. | |
| Vibration | G1.595.540.930 | | G1.374. | |
| Weight-Bearing | G1.595.540.965 | | G1.374. | |
| Motion | G1.595.560 | | | |
| Acceleration | G1.595.560.107 | | | |
| Deceleration | G1.595.560.107.373 | | | |
| Coriolis Force | G1.595.560.311 | | | |
| Pulsatile Flow | G1.595.560.620 | | G9.330. | |
| Rotation | G1.595.560.703 | | | |
| Nuclear Energy | G1.595.630 | | N6.230. | |
| Nuclear Fission | G1.595.630.485 | | N6.230. | |
| Nuclear Fusion | G1.595.630.652 | | N6.230. | |
| Optical Processes | G1.595.640 | | G1.590. | |
| Optical Rotation | G1.595.640.640 | | G1.590. | |
| Refraction, Ocular | G1.595.640.760 | | E1.370. | G1.590. |
| | | | G14.760 | |
| Phase Transition | G1.595.680 | | G2.149. | G2.842. |
| Freezing | G1.595.680.500 | | G1.906. | G2.149. |
| | | | G2.842. | |
| Vitrification | G1.595.680.625 | | | |
| Volatilization | G1.595.680.750 | | G2.149. | G2.842. |
| Radioactivity | G1.595.815 | | | |
| Scattering, Radiation | G1.595.861 | | E5.196. | |
| Neutron Diffraction | G1.595.861.650 | | E5.196. | E5.196. |
| | | | G2.149. | G2.842. |
| Scattering, Small Angle | G1.595.861.755 | | E5.196. | |
| X-Ray Diffraction | G1.595.861.950 | | E5.196. | E5.196. |
| | | | G2.149. | G2.842. |
| Radiation | G1.750 | | | |
| Electromagnetic Radiation | G1.750.250 | | G1.358. | |
| Gamma Rays | G1.750.250.300 | | G1.358. | G1.750. |

G1 - PHYSICAL PHENOMENA

**Physical Phenomena
Radiation
Electromagnetic Radiation
Light**

| | | | |
|--|--------------------|---|--------------------------------|
| Light | G1.750.250.650 | G1.358. G1.750. | G1.590. |
| Incandescence | G1.750.250.650.440 | G1.358. G1.750. | G1.590. |
| Infrared Rays | G1.750.250.650.552 | G1.358. G1.750. G16.500. | G1.590. G16.500. N6.230. |
| Luminescence | G1.750.250.650.665 | G1.358. G1.750. | G1.590. |
| Photons | G1.750.250.650.782 | G1.249. G1.590. | G1.358. G1.750. |
| Sunlight | G1.750.250.650.836 | G1.358. G16.500. N6.230. | G1.750. G16.500. |
| Ultraviolet Rays | G1.750.250.650.891 | G1.358. G1.750. G16.500. N6.230. | G1.590. G1.750. G16.500. |
| Radio Waves | G1.750.250.810 | G1.358. | G1.750. |
| Microwaves | G1.750.250.810.500 | G1.358. | G1.750. |
| Terahertz Radiation | G1.750.250.890 | G1.358. | G1.750. |
| X-Rays | G1.750.250.970 | G1.358. | G1.750. |
| Radiation Dosage | G1.750.740 | E5.799. | N6.850. |
| Dose-Response Relationship, Radiation | G1.750.740.500 | E5.799. G7.225. N6.850. | G4.299. G7.700. |
| Radiation Effects | G1.750.745 | N6.850. | |
| Radiation, Ionizing | G1.750.750 | | |
| Alpha Particles | G1.750.750.55 | | |
| Background Radiation | G1.750.750.115 | | |
| Beta Particles | G1.750.750.125 | | |
| Cosmic Radiation | G1.750.750.235 | G1.60. G16.500. | G1.595. N6.230. |
| Gamma Rays | G1.750.750.400 | G1.358. | G1.750. |
| Ultraviolet Rays | G1.750.750.659 | G1.358. G1.750. G16.500. N6.230. | G1.590. G1.750. G16.500. |
| X-Rays | G1.750.750.918 | G1.358. | G1.750. |
| Radiation, Nonionizing | G1.750.770 | | |
| Light | G1.750.770.578 | G1.358. G1.750. | G1.590. |
| Incandescence | G1.750.770.578.440 | G1.358. G1.750. | G1.590. |
| Infrared Rays | G1.750.770.578.552 | G1.358. G1.750. G16.500. | G1.590. G16.500. N6.230. |
| Luminescence | G1.750.770.578.665 | G1.358. G1.750. | G1.590. |
| Photons | G1.750.770.578.782 | G1.249. G1.590. | G1.358. G1.750. |
| Sunlight | G1.750.770.578.836 | G1.358. G16.500. N6.230. | G1.750. G16.500. |
| Ultraviolet Rays | G1.750.770.578.891 | G1.358. G1.750. G16.500. N6.230. | G1.590. G1.750. G16.500. |
| Radio Waves | G1.750.770.721 | G1.358. | G1.750. |
| Microwaves | G1.750.770.721.500 | G1.358. | G1.750. |

G1 - PHYSICAL PHENOMENA

Physical Phenomena

Radiation

Radiation, Nonionizing

Sound

Sound

High-Energy Shock Waves

Noise

Phonons

Terahertz Radiation

Solar Energy

Thermodynamics

Convection

Entropy

Temperature

Cold Temperature

Freezing

Hot Temperature

Transition Temperature

Thermal Conductivity

Time

Chronology as Topic

Half-Life

Periodicity

Seasons

Photoperiod

Time Factors

G1.750.770.776

G1.750.770.776.283

G1.750.770.776.567

G1.750.770.776.783

G1.750.770.832

G1.750.897

G1.906

G1.906.230

G1.906.345

G1.906.595

G1.906.595.272

G1.906.595.272.437

G1.906.595.543

G1.906.595.850

G1.906.730

G1.910

G1.910.200

G1.910.405

G1.910.645

G1.910.645.661

G1.910.675

G1.910.857

G16.500.

N6.230.

N6.850.

G1.249.

G1.358.

N6.230.

G16.500.

N6.230.

G16.500.

N6.230.

G1.595.

G2.842.

G16.500.

N6.230.

N6.230.

N6.230.

N6.230.

L1.80

G7.180.

G16.500.

N6.230.

N6.230.

G1.750.

G1.750.

G16.500.

N6.230.

G16.500.

N6.230.

G2.149.

G16.500.

G16.500.

N6.230.