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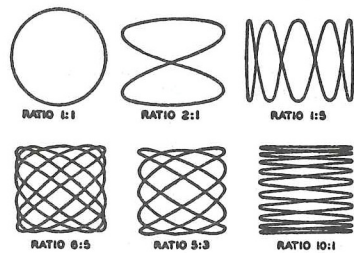
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list processing language



Lissajous figures for sinewaves with various frequency ratios.

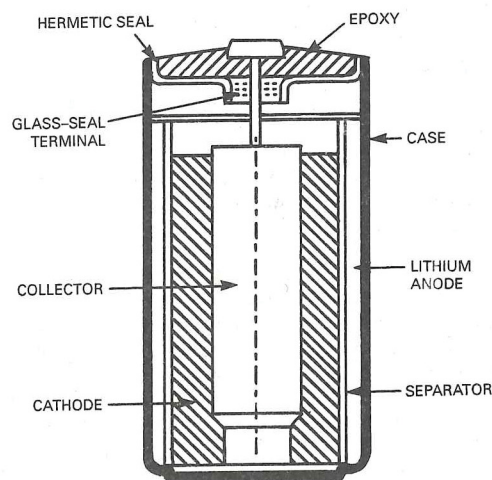
list processing language A programming language that is widely used in artificial intelligence research to manipulate categories or lists of items.

LiTaO₃ Symbol for *lithium tantalate*.

lithium [Li] An alkali metal element that has characteristics similar to those of sodium. It can be used in the cathodes of phototubes because it gives a high response at the extreme violet end of the light spectrum. It has an atomic number of 3 and an atomic weight of 6.939.

lithium niobate [LiNbO₃] A ferroelectric piezoelectric crystal that is transparent in the visible and infrared range from 0.38 to 5 μm . Applications include storage of holograms and its use in wideband crystal filters for communication equipment.

lithium power cell A power cell based on lithium electrochemistry that offers higher watt-hours per unit volume and higher voltage than other primary systems—as much as three times the energy output and twice the voltage output of zinc alkaline manganese cells. The cells are classified by their electrolytes: organic liquids, inorganic liquids, or solids. The most popular lithium chemistries are lithium dioxide (Li-SO₂), thionyl chloride (Li-SOCl₂), solid-state iodine (Li-I₂), manganese dioxide (Li-MnO₂), carbon monofluoride (Li-CF_x), and copper oxide (Li-CuO). For example, Li-SOCl₂ offers a nominal voltage of 3.6 V with 11.0 Wh/in³; Li-SO₂ offers a nominal 3.0 V with 7.4 Wh/in³.



Lithium power cell: lithium thionyl-chloride cell has a high 3.6-V output and long life.

lithium tantalate [LiTaO₃] A piezoelectric crystal grown at high temperature from a melt of lithium oxide and tantalum pentoxide. It is used for wideband crystal filters in communication equipment.

lithography The transfer of a pattern or image from one medium to another, as from a mask to a sensitized (photoresist-coated) semiconductor wafer. If visible light causes the transfer, it is *photolithography*. *Microlithography* is the process where dimensions are measured in micrometers. See *aligner*, *electron-beam lithography*, *mask*, *stepper*, and *X-ray lithography*.

litz wire Wire that consists of a number of separately insulated strands woven together so each strand successively takes up all possible positions in the cross section of the entire conductor. It reduces skin effect and RF resistance and can be used for winding coils.

live 1. Broadcast directly at the time of production, instead of from recorded or filmed program material.

2. *Energized*.

live chassis A radio, television, or other chassis that has a direct chassis connection to one side of the AC line. For safety, a live chassis must be completely enclosed by an insulating cabinet.

live end The end of a radio studio that gives almost complete reflection of sound waves.

live room A room that has minimum sound-absorbing material.

lm Abbreviation for *lumen*.

LM Abbreviation for *line monitor*.

LMDS Abbreviation for *local multipoint distribution*.

lm/ft² Abbreviation for *lumen per square foot*.

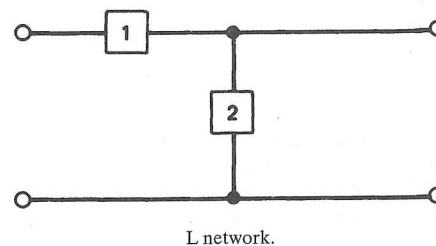
lm/m² Abbreviation for *lumen per square meter*.

lm-s Abbreviation for *lumen second*.

lm/W Abbreviation for *lumen per watt*.

ln Abbreviation for *natural logarithm*.

L network A network composed of two branches in series, with the free ends connected to one pair of terminals. The junction point and one free end are connected to another pair of terminals.



L network.

LO Abbreviation for *local oscillator*.

load 1. The device that receives the useful signal output of an amplifier, oscillator, or other signal source. 2. A device that consumes electric power. 3. The amount of electric power that is drawn from a power line, generator, or other power source. 4. The material to be heated by an induction heater or dielectric heater. 5. To enter data into the storage or working registers of a computer. 6. To place a reel, disk, cartridge, or some other type of recording media into a machine that extracts the stored data or the audio or video content.