Justinian, conjectures on the physical causes of volcanic eruptions, 243.

Kämtz, isobarometric lines, 315; doubts on the greater dryness of mountain air,

Kant, Emanuel, "on the theory and structure of the heavens," 50, 65; earthquake at Lisbon, 210.

Keilhau on the ancient sea-line of the

coast of Spitzbergen, 296.

Kepler on the distances of stars, 88; on the density of the planets, 93; law of progression, 95; on the number of comets, 99; shooting stars, 113; on the obscuration of the sun's disk, 132; on the radiations of heat from the fixed stars, 136; on a solar atmosphere, 139.

Klöden, shooting stars, 119, 124. Knowledge, superficial, evils of, 43.

Krug of Nidda, temperature of the Geyser and the Strokr intermittent fountains, 222.

Krusenstern, Admiral, on the train of a fire-ball, 114.

Kuopho, a Chinese physicist, on the attraction of the magnet, and of amber,

Kupffer, magnetic stations in Northern Asia, 191.

Lamanon, 187.

Lambert, suggestion that the direction of the wind be compared with the height of the barometer, alterations of temperature, humidity, &c., 315.

Lamont, mass of Uranus, 93; satellites of

Saturn, 96.

Language and thought, their mutual alliance, 56; author's praise of his native language, 56.

Languages, importance of their study,

357, 359.

Laplace, his "Système du Monde," 48, 62, 92, 141; mass of the comet of 1770, 107; on the required velocity of masses projected from the Moon, 121, 122; on the altitude of the boundaries of the atmosphere of cosmical bodies, 141; zodiscal light, 141; lunar inequalities, 166; the Earth's form and size inferred from lunarinequalities, 168, 169; his estimate of the mean height of mountains, 301; density of the ocean required to be less than the earth's for the stability of its equilibrium, 305; results of his perfect theory of tides, 306.

Latin writers, their use of the term "Mun-

dus," 70, 71.

Latitudes, Northern, obstacles they present to a discovery of the laws of Nature, 36; earliest acquaintance with the governing forces of the physical world, there displayed, 36; spread from thence of the germs of civilization, 36.

Latitudes, tropical, their advantages for the contemplation of nature, 33; powerful impressions, from their organic richness and fertility, 34; facilities they present for a knowledge of the laws of nature, 35; brilliant display of shooting stars, 113.

Laugier, his calculations to prove Halley's comet identical with the comet of 1378, described in Chinese tables, 109.

Lava, its mineral composition, 234.

Lavoisier, 62.

Lawrence (St.), fiery tears, 124; meteoric

stream, 125.

Leibnitz, his conjecture that the planets increase in volume in proportion to their increase of distance from the Sun, 93.

Lenz, observations on the mean level of the Caspian Sea, 297; maxima of density of the oceanic temperature, 304, temperature and density of the ocean under different zones of latitude and longitude, 306.

Leonhard, Karl von, assumption on formations of granular limestone, 263.

Leverrier, planet Neptune. See Trans-

lator's note, 90, 91.

Lewy, observations on the varying quantity of oxygen in the atmosphere, according to local conditions, or the seasons, 311, 312.

Lichtenberg, on meteoric stones, 118.

Liebig on traces of ammoniacal vapors in the atmosphere, 311.

Light, chromatic polarization of, 52; transmission, 88; of comets, 104-106; of fixed stars, 105; extraordinary lightness, instances of, 142-144; propagation of 153; speed of transit, 153, 154. See Aurora, Zodiacal Light, &c.

Lignites, or beds of brown coal, 283, 284. Lines, isogonic (magnetic equal deviation), 177, 181-185; isoclinal (magnetic equal inclination), 178, 179, 181-185; isodynamic (or magnetic equal force), 181, 185-194; isogeothermal (chthonisothermal), 219; isobarometric, 315; isothermal, isotheral, and isochimenal, 317, 327, 328, 348.

Line of no variation of horary declination, 183; lower limit of perpetual snow, 329-332; phosphorescent, 113.

Lisbon, earthquake of, 210, 211, 213, 214. Lord on the limits of the snow-line on the Himalayas, 32.

Lottin, his observations of the Aurora, with Bravais and Siljerstrom, on the coast of Lapland, 195, 200, 201.

Lowenorn, recognized the coruscation of the polar light in bright sunshine, 196.

Lyell, Charles, investigations on the nu merical relations of extinct and organic life, 274, 275; nether-formed or hypogene rocks, 249; uniformity of the production of erupted rocks, 257. See notes by Translator, 203, 244, 257.

Mackenzie, description of a remarkable eruption in Iceland, 236.

Maclear on a Centauri, 88; parallaxes and distances of fixed stars, 153; increase in brightness of η Argo, 153.

Mädler, planetary compression of Uranus, 96; distance of the innermost satellite