in Peru." See Translator's note, 215, 216, 217.

Turner, note on Sir Isaac Newton, 132.

Universality of animated life, 342, 343.

Valz on the comet of 1618, 106.

- Varenius, Bernhard, his excellent general and comparative Geography, 66, 67; edited by Newton, 66.
- Vegetable world, as viewed with microscopic powers of vision, 341; its predominance over animal life, 343.
- Vegetation, its varied distribution on the earth's surface, 29-31, 62; richness and fertility in the tropics, 33-35; zones of vegetation on the declivities of mountains, 29-32, 346-350. See Ætna, Cordilleras, Himalayas, Mountains.

Vico, satellites of Saturn, 96.

Vigne, measurement of Ladak, 332.

- Vine, thermal scale of its cultivation, 324. Volcanoes, 28, 30, 35, 159, 161, 214, 215, 224-248; author's application of the term volcanic, 45; active volcanoes, safety-valves for their immediate neighborhood, 214; volcanic eruptions, 161, 210-270; mud volcanoes or salses, 224-228; traces of volcanic action on the surface of the earth and moon, 228; influence of relations of height on the occurrence of eruptions, 228-233; volcanic storm, 233; volcanic ashes, 233; classification of volcanoes into central and linear, 238; theory of the necessity of their proximity to the sea, 243-246; geographical distribution of still active volcanoes, 245-247; metamorphic action on rocks, 247-249.
- Vrolik, his anatomical investigations on the form of the pelvis, 352, 353.

Wagner, Rudolph, notes on the races of Africa, 352.

Walter on the decrease of volcanic activity, 215.

- Wartmann, meteors, 113, 114.
- Weber, his anatomical investigations on the form of the pelvis, 353.
- Webster, Dr. (of Harvard College, U. S.), account of the island named Sabrina. See note by Translator, 242.
- Winds, 315–321; monsoons, 316, 317; trade winds, 320, 321; law of rotation, importance of its knowledge, 315–317.
- Wine, on the temperature required for its cultivation, 324; thermie table of mean annual heat, 325.
- Wollaston on the limitation of the atmosphere, 302.
- Wrangel, Admiral, on the brilliancy of the Aurora Borealis, coincident with the fall of shooting stars, 126, 127; observations of the Aurora, 197, 200; wood hills of the Siberian Polar Sea, 281.
- Xenophanes of Colophon, described comets as wandering light clouds, 100; marine fossils found in marble quarries, 263.
- Young, Thomas, earliest observer of the influence different kinds of rocks exercise on the vibrations of the pendulum, 168.
- Yul-sung, described by Chinese writers as "the realm of pleasure," 332.
- Zimmerman, Carl, hypsometrical remarks on the elevation of the Himalayas, 32.
- Zodiacal light, conjectures on, 86–92; general account of, 137–144; beautiful appearance, 137, 138; first described in Childrey's Britannia Baconica, 138; probable causes, 141; intensity in tropical climates, 142.
- Zones, of vegetation, on the declivities of mountains, 29-33; of latitude, their di versified vegetation, 62; of the southern heavens, their magnificence, 85, 86; polar, 197, 198.

END OF VOL. I.