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- Thomson, William, and Sir G. G. Stokes, contributions to mathematical physics, i. 274; and Tait: 'Natural Philosophy,' *ib.*
- Thorpe, 'Essays in Historical Chemistry,' ii. 158.
- Thought, the hidden world, i. 1; the only moving principle, 2; Max Müller on definition of, 4; many meanings of, 5; forgotten and unexpressed, 8; value of contemporary records of, 10; unity of, a product of the nineteenth century, 16; equivalents in German and French, 24; conception of, not specifically English, 26; definition of, 33; not exhausted by science or philosophy, 66; unmethodical, 68; religious, 69; personal or subjective, 70; scientific, philosophical, and individual, 72; of nineteenth century characterised, 77; constructive, not destructive, 80; exact, historical, and critical habits of, 222; characteristics of higher mental work in England, 239; characteristics of English, 249; scientific, absence of schools of, in England, 250; history of, ii. 627; not history of knowledge, 628.
- Thouin, agriculture at the École normale, i. 112.
- Thucydides, a model historian, i. 7.
- Tiedemann, Fr., chemistry of the living body, ii. 391; 317.
- Tilloch, 'Philosophical Magazine,' i. 41. "Timbre," ii. 488.
- Tisserand, 'Comptes Rendus,' i. 377; quoted on Newton's law, 378.
- Titchener, E. B., criticism of Münsterberg's work, ii. 522.
- Titius, Daniel, astronomical formula of, i. 422.
- Tocqueville, A. de, quoted on contemporary records, i. 10.
- Todhunter, Isaac, his 'Histories,' i. 91; 'History of the Theories of Attraction,' 98, 99, 308, ii. 698; theory of probabilities, i. 120, ii. 568; 'History of the Theory of Probability,' i. 234; 'Life of Whewell,' 236, 262, 306; theory of elasticity, ii. 30; on Young's style, *ib.*; on English science, *ib.*; 'History of Elasticity,' 33; quoted, 43.
- Todhunter and Pearson, 'History of the Theory of Elasticity,' i. 376, ii. 43, 56.
- Tooke, Horne, on words, i. 21; the 'Divisions of Purley,' ii. 537.
- Tour, Cagniard de la, the siren, ii. 487.
- Traube, medical thermometry, ii. 389.
- Treitschke, 'Deutsche Geschichte,' i. 312.
- Trembly, ii. 418.
- Trench, Archbishop, on words, i. 21.
- Treviranus, G. R., 'Biologie,' i. 194; identity of all sciences of organic life, ii. 217; 230, 261; biological