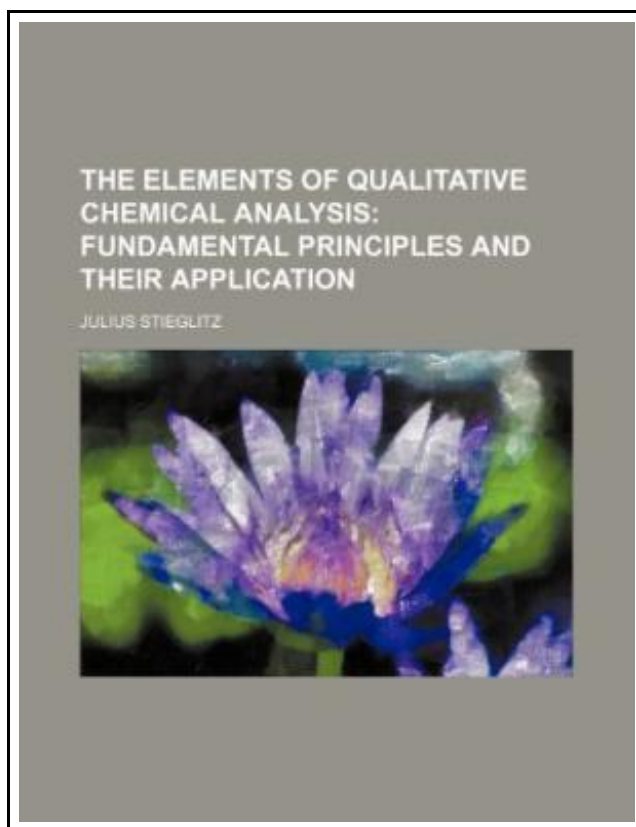


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1911 Excerpt: .quantitative relation between the solubility of a given ionogen in different solvents and the ionizing powers of the solvents, as determined by their dielectric constants (p. 63), was predicted, on the basis of theoretical considerations, by Malstrom¹ and by Baur.² Walden³ has furnished experimental confirmation of the relation: The degree of ionization of a salt is found to be the same in its saturated solutions in different solvents, when the solutions are saturated at the same temperature. If this relation is combined with that discussed on page 63, according to which the degree of ionization of a given salt, in different solvents, is the same, when the cube roots of its concentrations are directly proportional to the dielectric constants of the solvents (ei: Vci--e2: -Vci = a constant), then we find, that in saturated solutions of a given salt, in different solvents, the cube roots of the concentrations, or solubilities, are directly proportional to the dielectric constants of the solvents, or, the solubilities are proportional to the third powers of the dielectric constants. ei: v cT = e-: v cj = a constant, or et: ei = Ci: c , Ci and C- representing the solubilities, in molar concentrations, in two solvents of dielectric constants ei and e2. The following table illustrates the relations for a salt examined by Walden, a derivative of ammonium iodide, namely tetraethyl ammonium iodide (C1H6)4NI. The first column gives the name of the solvent, the second the solubility or concentration in...



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