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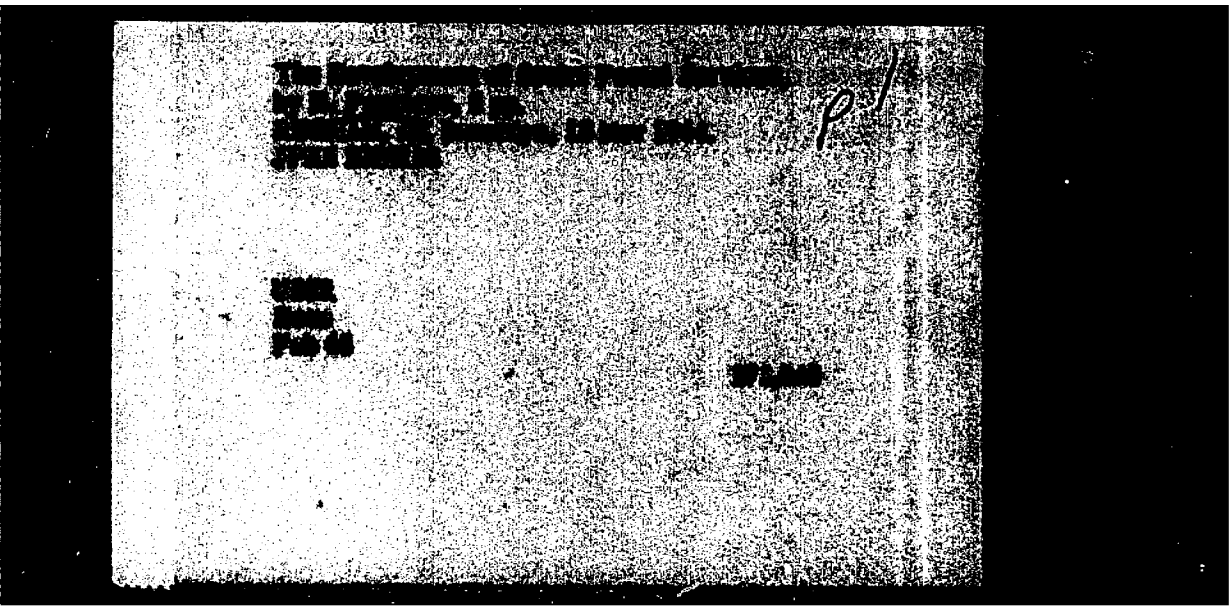

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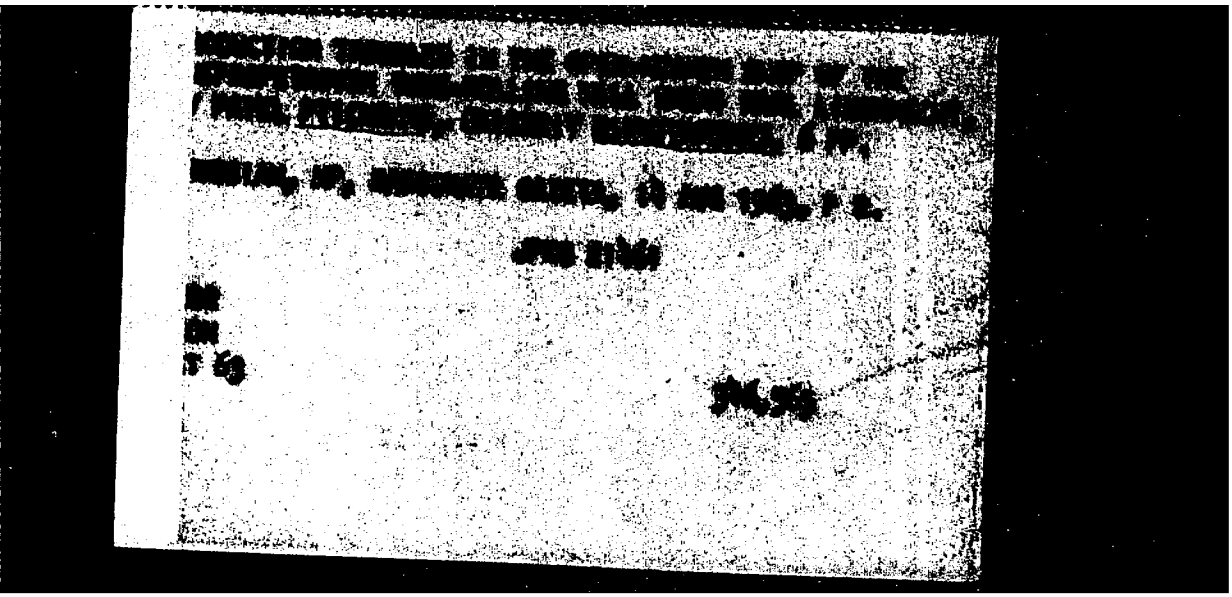

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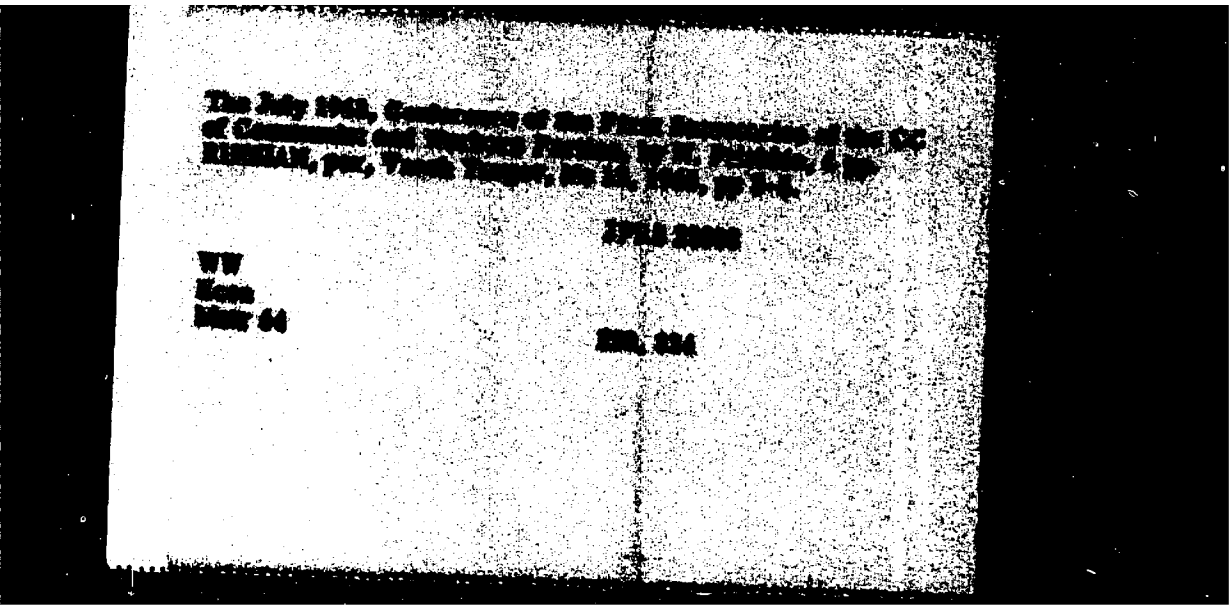

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Ptitzyn, O. B. and Eisner, Yu. E.
INTERMOLECULAR INTERACTIONS IN SOLUTIONS OF POLYMERS. I. INFLUENCE OF VOLUME EFFECTS ON SECOND VIRIAL COEFFICIENT. [1960] 8p. (Eng. summary omitted) 32 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-15432

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1959, v. 1, p. 1200-1206.

A more accurate evaluation of the influence of intramolecular volume effects on the second virial coefficient of solutions of polymers than was given in previous theories leads to an essential change in the theory. On the theory proposed, the A_2 values in good solvents are considerably higher than on the Casassa-Markovitz theory, for given chain dimensions, and the dependence of A_2 on the molecular weight is noticeably less than in the theory given. The Flory-Krigbaum-Orofino theory leads, in the region of ordinary values for α, the coefficient of dissociation, to values for A_2 that
(Chemistry--Physical, TT, v. 5, no. 8) (over)

61-15432

1. Polymers--Solubility
I. Ptitzyn, O. B.
II. Eisner, Yu. E.
III. Title: Influence...
IV. Translations, New York

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are close to those predicted by the proposed theory; but it leads to much different results both in poor solvents and in regions of large α, and likewise predicts a considerably weaker dependence of A_2 on the molecular weight than our theory does. Comparison of the various A_2 theories with the experimental data for both poor and good solvents shows that the theory proposed is in much better agreement with experiment than the Flory-Krigbaum-Orofino and Casassa-Markovitz theories. (Author)

PB- 61-15432

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