Studies on Ion Selective Charged Membranes (II)

- Ion Selective Permeability in Carboxymethyl Cellulosic Membranes -

Han Jin Lim, Tae Nuen Kim, Jae Hyup Kim and Soo Min Pak

- \*1 I. Karube Lab., Research Laboratory of Resources Utilization, Tokyo Institute of Technology, Yokohama 227, Japan
- \*2 Textile Lab., Jeonju Woosuk University, 520, Jeon buk
- and Dept. of Textile, College of Engineering, Pusan University, Pusan 607

The sorption and permeation in solutions of alkali metal chlorides and some organic salts at 25°C were investigated.

The membranes used were partially carboxymethyl and carboxyethyl cellulose.

The type of isotherms was partition and penetrants used gave an usual pattern of the dependence of permeation coefficient, P on upstream concentration,  $C_{\rm gn}$ .

The results can be interpreted by means of TMS theory. The offective charged group concentration in the charged membrane was found to depend on the ionic species. The greater the stokes radius the larger the effective charge density of the membranes.