

New conceptual applied process design for the chemical plants

김영호*

Y.H.KIM Eng. & Mfg. Consultant

(yhkim1116@hotmail.com*)

Present modernized most complex chemical plants are mainly manufacturing the products that have the following major chemical properties, which are very toxic, extremely dangerous, fatally poisonous, easily inflammable and sensitively explosive, etc. as mostly fine chemicals.

As almost all chemical engineers understand well, they understand most chemical products on the above are basic materials for manufacturing of many different industries of products.

Accordingly, these chemical products should be survived in the hard struggle for existence in the fields of production cost reduction on higher quality as well as production activities on process safety.

As of today, author realizes we chemical engineers should concentrate all our energies on the further study of *new conceptual applied process design* for the purpose of lower manufacturing cost on higher quality and safety-wise.

Consequently, this paper focuses the following major fields: 1) Raw materials, 2) New process technology, 3) New process control technology, 4) Specification, and the like.