

Proceedings of the

**National Conference
Design and Application of Technology 2004**

Section 3 : Industrial Engineering

Surabaya, 30th August 2004

Editors

**Kwa See Yong
Ferry A. V. Toar
Felycia Edi-Soetaredjo
Kris Pusporini
Antonius Wibowo**



**Faculty of Engineering
Widya Mandala Surabaya Catholic University**