

**DESIGN AND DEVELOPMENT OF A MULTI-SCRUBBER  
DUST CONTROL SYSTEM FOR LONGWALL FACES:  
EXPERIMENTAL AND MODELLING STUDIES**

A Thesis Submitted  
in Fulfilment of the Requirements for the Degree of

**DOCTOR OF PHILOSOPHY**

from

**UNIVERSITY OF WOLLONGONG**



by

**SRINIVASA RAO BALUSU**

**Department of Civil and Mining Engineering**

November 1993