A NUMERICAL METHOD OF MULTIREGIONAL FREIGHT FLOW BASED ON
RECTANGULAR MODELLING

This paper proposes a model for estimating the interregional freight flows (IRFF) which is
of significant importance in synthetic transportation planning of a country. Due to the strong
relationship between freight flow and trade flow on the basis of unit prices, it is possible to convert
freight flow analysis to trade flow analysis. The trade flow analysis was constructed conforming to
interregional rectangular input–output (IRRIO) table because there is the direct relation between
industries and no reconciliation between sales and purchase data. The IRRIO model requires the
Chenery–Moses type interregional square input–output (IRSI0) table or regional input–output
tables, and national output(V) table as the input data. The estimated IRRIO is converted to IRFF
and then using the iteration technique to formulate all entries before comparing with the IRFF
constructed from the Freight Flow Census.