

E-WASTE ASSESSMENT AND MANAGEMENT

E-waste, types- Materials from E-Waste- Classification- Evolution of e-waste management system- Challenges and Opportunities of E-Waste Management in Developing Countries

Models for e-waste assessment- volume estimation-market supply method-consumption and use method-regression-system dynamics-Markov chain

Quality issues related to e-waste reuse-remanufacture-models for cost effective refurbishment

Reverse logistics models for e-waste-centralized versus decentralized collection- LP, MILP, stochastic programming – Multi attribute decision making techniques- traditional and non-traditional techniques- simulation models

E-waste rules and regulations in India-EPR-sustainable e-waste recycling –life cycle approach- Material Flow Analysis (MFA)-industrial case studies

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