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An Approach to Sustainable Smart Airport Design

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This book details a cutting-edge smart airport infrastructure with a focus on sustainable, net-zero energy solutions and advanced technologies. The current global trend is construction so that all infrastructure is self-sustaining and implements the latest technologies to achieve net-zero energy and net-zero water. The demand for smart airport technology is estimated to be primarily driven by the rising investments being made in building new greenfield airports and expanding existing airports globally to accommodate the anticipated rebound in passenger traffic.

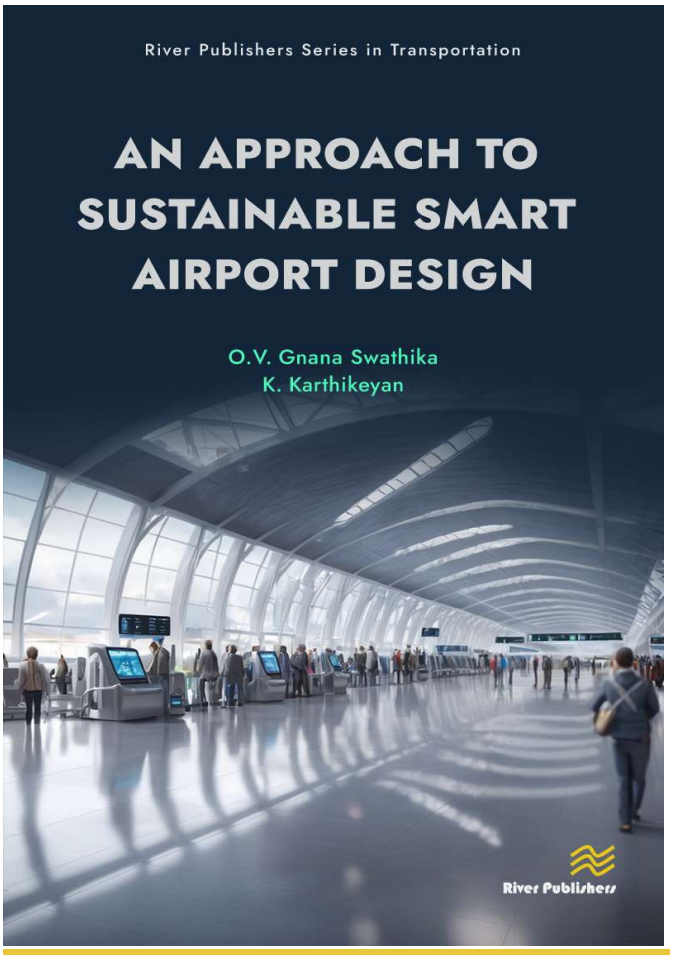
The Global Smart Airport Market Research & Size report includes segments on airport operations (landside, airside, and terminal side), geography (North America, Europe, Asia-Pacific, Latin America, Middle East and Africa), and technology (security systems, communication systems, air and ground traffic control, passenger, cargo, and baggage ground handling). For each of the aforementioned market segments, the study provides market size and projections in the billions (USD).

Technical topics discussed in the book include:

- Evolution of Lighting Technology on Runways
- Building Management Systems
- Baggage Handling Systems
- Elevators and Escalators
- Electrical Design Aspects
- Source of Electrical Power
- Critical Buildings

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