

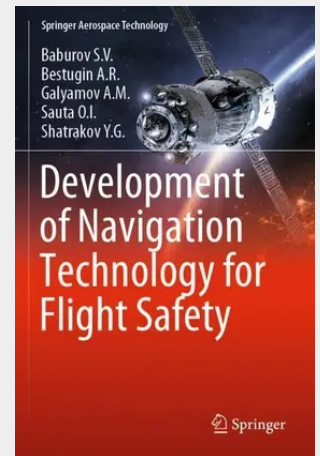
Development of Navigation Technology for Flight Safety

This book highlights practical solutions for flight safety improvement techniques, which are currently the focus of the International Civil Aviation Organization (ICAO). It has become clear that, in order to rapidly and significantly improve flight safety, the integrated use of new aeronautical technologies is called for. Considering the size of the aviation fleet, its constant growth and the long service lives of aircraft, new technologies should be adapted both to cutting-edge air navigation systems and to those that have been used for over a decade.

Concretely, the book discusses methodological approaches to the construction of ground and on-board avionics that make it possible to achieve improved flight safety using innovative new methods. The proposed approaches are illustrated with real-world examples of e.g. satellite-based navigation systems and enhanced ground proximity warning systems.

The book is written for professionals involved in the development of avionics systems, as well as students, researchers and experts in the field of radiolocation, radio navigation and air traffic control, the book will support the development and modeling of radio technical complexes, as well as the analysis of complex radio technical systems.

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