

Unmanned Aerial Vehicles: Design and Interaction Possibilities

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key words

air-based robotics, operation, interaction with ground and surface platforms

The development and improvement of utility devices with the effective use of the capabilities of artificial intelligence to solve a variety of practical problems of monitoring situations in the air, on the ground and water surface, ensuring road safety, preventing and eliminating emergencies and eliminating other problems in our time is no longer conceivable without use of unmanned aerial vehicles. Their functionality is technologically provided by the possibilities of optimal design for the purposes of specific implementations.

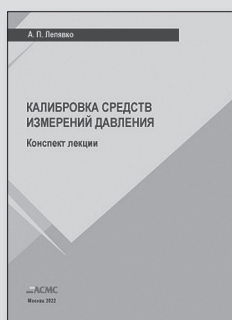
The article introduces the latest developments in the class of mobile air-based robots, for example, with a multi-platform control architecture that provides stable soaring flight and tracking the trajectory of micro-aircraft with flapping wings the size of an insect. Among the novelties of the other pole of this classification are space devices with passive manipulators for capturing flying targets using a mechanical arm.

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НОВАЯ КНИГА

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Калибровка средств измерений давления

Конспект лекции. — М.: АСМС, 2022

Рассмотрено одно из основных требований к калибровке средств измерений: оценке неопределенности в соответствии с международными требованиями (ГОСТ ISO/IEC 17025–2019). Приводится перечень нормативных документов по калибровке средств измерений давления, а также выдержки из российского документа с формулами для вычисления неопределенности калибровки. Подробно описывается процедура калибровки в соответствии с инструкцией DKD-R 6-1.

Конспект предназначен для слушателей Академии, а также может быть полезен специалистам в области поверки и калибровки средств измерений температуры.

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