

## СОВРЕМЕННЫЕ БОРТОВЫЕ РАДИОЛОКАЦИОННЫЕ СТАНЦИИ И АНТЕННЫЕ РЕШЕТКИ МНОГОФУНКЦИОНАЛЬНЫХ АВИАЦИОННЫХ КОМПЛЕКСОВ ВОЕННОГО НАЗНАЧЕНИЯ

**Е.Е. НЕЧАЕВ, К.С. ДЕРЯБИН**  
(по материалам открытой печати)

В данной статье дается краткое описание облика современных и перспективных многофункциональных авиационных комплексов и функций бортовых радиолокационных станций в составе их бортового радиоэлектронного оборудования. Приведены характеристики бортовых радиолокационных станций и описание антенных решеток, стоящих на вооружении в России и за рубежом. Приводятся возможные пути развития бортовых радиолокационных станций в ближайшем будущем.

**Ключевые слова:** бортовые радиолокационные станции, характеристики бортовых радиолокационных станций, многофункциональные авиационные комплексы.

### ВВЕДЕНИЕ

В насткое время в России и зарубежных странах сформулированы основные критерии, определяющие облик современных и перспективных авиационных комплексов (АК) военного назначения. К ним относятся: многофункциональность, повышенная скрытность, интегрированность бортового радиоэлектронного оборудования (БРЭО), информационная осведомленность о текущей обстановке, высокая надежность и технологичность.

Приведенные критерии, прежде всего, появляли из тенденции развития бортовых радиолокационных станций (БРЛС). Данная статья направлена на обобщение информации о БРЛС современных и перспективных АК и оценку возможных направлений их развития.

### БРЛС В СОСТАВЕ МНОГОФУНКЦИОНАЛЬНЫХ АВИАЦИОННЫХ КОМПЛЕКСОВ

Многофункциональность АК в простом понимании подразумевает наличие оборудования, которое позволяет одному самолету (засыпаку) выполнять функции истребителя воздушных целей, ударного самолета, способного с высокой эффективностью уничтожать разнообразные наземные объекты в условиях сильного противодействия средств ПВО, а также выполнять роль самолета-разведчика [1]. В еще более общем понимании многофункциональными можно считать АК, оборудование которых позволяет выполнять в одном полете ряд разнохарактерных задач. Одну из ключевых ролей, определяющих способность МФ АК выполнять поставленные перед ними задачи, играют бортовые радиолокационные станции, которые, по мнению отечественных и зарубежных экспертов, в ближайшем будущем останутся основным средством обнаружения и сопровождения целей, обеспечения ситуационной осведомленности и применения оружия [5]. БРЛС МФ АК должна обеспечивать в режиме «воздух-воздух»:

- обнаружение большого количества воздушных целей (в том числе групповых) и их одновременное распознавание на большом расстоянии;
- измерение дальности до обнаруженных целей, направления и скорости их движения;
- автоматическое сопровождение одновременно большого количества воздушных целей;
- применение управляемых средств поражения (УСП) одновременно по нескольким целям;
- обнаружение метеорологических образований на пути следования;
- предупреждение столкновения в воздухе.

В режиме «воздух-поверхность» БРЛС должна обеспечивать:

- обнаружение, распознавание и автоматическое сопровождение наземных (морских) целей с различной ЭПР, в том числе малоразмерных слабоконтрастных целей;

# Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki

**Christian G. Meyer**

## **Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki:**

## Decoding **Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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