

## 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 функции бортовых радиолокационных станций в составе их бортового радиоэлектронного оборудования. Приведены характеристики бортовых радиолокационных станций и описание антенных решеток, стоящих на вооружения 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 настоящее 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, повлияли на 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 (экипажу) 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 ним 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 однозначное 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

**Richard Bailey**



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## **Table of Contents Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki**

1. Understanding the eBook Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - The Rise of Digital Reading Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Advantages of eBooks Over Traditional Books
2. Identifying Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - User-Friendly Interface
4. Exploring eBook Recommendations from Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Personalized Recommendations
  - Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki User Reviews and Ratings
  - Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki and Bestseller Lists
5. Accessing Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki Free and Paid eBooks

- Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki Public Domain eBooks
- Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki eBook Subscription Services
- Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki Budget-Friendly Options
- 6. Navigating Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki eBook Formats
  - ePub, PDF, MOBI, and More
  - Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki Compatibility with Devices
  - Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Highlighting and Note-Taking Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Interactive Elements Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
- 8. Staying Engaged with Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
- 9. Balancing eBooks and Physical Books Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Setting Reading Goals Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Fact-Checking eBook Content of Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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