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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 радиолектронного оборудования. Приведены характеристики бортовых радиолокационных станций и описание автенных решеток, стоящих на вооружении в России и за рубежом. Приводятся возможные пути развития бортовых радиолокационных станций в бликайшем будущем.

Ключевые слова: бортовые радиолозационные станции, характеристики бортовых радиолокационных станций, эмогофункциональные 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 радиопокационных 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 (экипаку) выполнять функции истребителя воздушных целей, ударного самолета, способного с высокой эффективностью уничтожать разнообразвые наземные объекты в условиях сильного противодействия средств ПВО, в также выполнять роль самолета-разведчика [1]. В еще более общем понимании многофункциональными можно считать АК, оборудование которых позволяет выполнять в одном полете ряд разнохарактерных вадач. Одну из ключевых ролей, определяющих способность МФ АК выполнять поставленные неред ины задачи, играют бортовые радиолокационные станция, которые, повению отечественных и зарубежных экспертов, в ближайшем будущем останутся основным предством обнаружения и сопровождения целей, обеспечения ситуационной осведомленности и применения оружия [5]. БРЛС МФ АК должия 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 нескользим целям;
- обнаружение метеорологических образований на пути следования;
- предупреждение стольновения в воздухе.
- В режиме «воздух-поверхность» БРЛС дольна обеспечивать:
- обнаружение, распознавание и автоматическое сопровождение наземных (морских) целей с различной ЭПР, в том числе малоразмерных слабоконтрастных педей;

Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki

JR Anderson

Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki:

Whispering the Techniques of Language: An Psychological Journey through **Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki**

In a digitally-driven world where screens reign supreme and quick communication drowns out the subtleties of language, the profound secrets and mental nuances concealed within words frequently get unheard. Yet, situated within the pages of **Radiolokatsionnye Metody Izmerenii Eksperimentalnoi Ballistiki** a interesting literary prize blinking with fresh feelings, lies a fantastic journey waiting to be undertaken. Penned by a talented wordsmith, this wonderful opus encourages visitors on an introspective journey, gently unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the emotional depths of the moving evaluation, we will embark upon a genuine exploration of the book is core styles, dissect its fascinating publishing design, and fail to the powerful resonance it evokes serious within the recesses of readers hearts.

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