
CHAPTER 9

ELECTRONIC COUNTER-COUNTERMEASURES

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9.1 INTRODUCTION

Since World War II both radar and electronic warfare (EW) have achieved a very high state of performance.^{1,2} Modern military forces depend heavily on electromagnetic systems for surveillance, weapon control, communication, and navigation. Electronic countermeasures (ECM) are likely to be taken by hostile forces to degrade the effectiveness of electromagnetic systems. As a direct consequence, electromagnetic systems are more and more frequently equipped with so-called electronic counter-countermeasures (ECCM) to ensure effective use of the electromagnetic spectrum despite an enemy's use of EW actions.

This chapter is devoted to the description of the ECCM techniques and design principles to be used in radar systems when they are subject to an ECM threat. Section 9.2 starts with a recall of the definitions pertaining to EW and ECCM. The topic of radar signals interception by EW devices is introduced in Sec. 9.3; the first strategy to be adopted by radar designers is to try to avoid interception by the opponent electronic devices. Section 9.4 is dedicated entirely to the analysis of the major ECM techniques and strategies. It is important to understand the ECM threat to a radar system in order to be able to efficiently react to it. To facilitate the description of the crowded family of ECCM techniques (Secs. 9.6 through 9.10), a classification is attempted in Sec. 9.5. Then, the techniques are introduced according to their use in the various sections of radar, namely, antenna, transmitter, receiver, and signal processing. A key role is also played by those ECCM techniques which cannot be classified as electronic, such as human factors, methods of radar operation, and radar deployment tactics (Sec. 9.10).

The ensuing Sec. 9.11 shows the application of the aforementioned techniques to the two most common radar families, namely, surveillance and tracking radars. The main design principles (e.g., selection of transmitter power, frequency, and antenna gain) as dictated by the ECM threat are also discussed in some detail.

The chapter ends with an approach to the problem of evaluating the efficacy of ECCM and ECM techniques (Sec. 9.12). There is a lack of theory to properly

Radar Electronic Countercountermeasures

Guillaume Favre



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Radar Electronic Counter-countermeasures Stephen L. Johnston,1979 *Radar Electronic Countermeasures (ECM) and Electronic Counter-countermeasures (ECCM)* Fernando Mendoza,1991 **Radar Electronic Warfare** August Golden,1987
This text provides students engineers and officers with a solid foundation for understanding electronic countermeasures It defines common terms and principles used in the fields of radar and electronic warfare and describes the response of radar systems to electronic countermeasures In depth analyses of the effects that various electronic countermeasure emissions have on classes of radar systems follows Mathematical models are used to describe these effects although minimal mathematical sophistication is required Electronic Counter-countermeasures Considerations in Radar Systems Acquisition ,1987 *Electronic Counter Countermeasures/Advanced Radar Test Bed (ECCM/ARTB)* T. King,1992

Introduction to Electronic Defense Systems Filippo Neri,2006 This revised edition surveys sophisticated electronic warfare systems with the latest technological advances New material covers current radar techniques with the latest in IR techniques and EW weapons systems and defense equipment It also includes an introduction to Information Operations and Information Warfare *Synthetic Aperture Radar Electronic Counter-countermeasures Techniques* Marvin Neal Cohen,Georgia Tech Research Institute (1984-). Project no. A-9303,1992 **Fundamentals of Strategic Weapons** James N. Constant,2013-12-01 The purpose of this book is to provide graduate students professional engineers military officers and weapons systems planners with a comprehensive grounding in the technology evolution functions costs impacts on society utility and limitations of modern strategic weapons systems Since the subject is often left to the specialists this work should introduce the general reader to the fundamentals of such systems in an informed manner Nowadays the intense interaction of means and ends symbolized by strategic weapons has stimulated a changing discipline in which new missile systems and the intricate logic of nuclear force and counterforce hold the stage alongside the truths of conflict alliances fears games and subtle gains and losses Many readers with new personal interest or public responsibility in this complex field will require an overall guide to it This book will not prepare the reader to become an expert in the vast subject of strategic weapons systems It will however enable him to understand evaluate and form reasonable opinions about these systems their capabilities and effectiveness The subject is dealt with more from the viewpoint of the user investor rather than the architect systems engineer and builder design engineer While the user will be concerned with both political as well as technical options which may be available to solve a problem the systems and design engineers are concerned with analyzing and building technological weapons devices once their requirements are generally known **Modern Radar Techniques** M. J. B. Scanlan,1987 **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.),1975 **The Electronics Handbook** Jerry C. Whitaker,1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include

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