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**Introduction To  
Radar  
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Since the publication of the second edition of "Introduction to Radar Systems," there has been continual development of new radar capabilities and continual improvements to the technology and practice of radar.

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This growth has necessitated the addition and updating of the

following topics for the third edition: digital technology, automatic detection and tracking, doppler technology, airborne radar, and target recognition.

The topic coverage

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is one of the great strengths of the text.

In addition to a thorough revision of topics, and deletion of obsolete material, the author has added end-of-chapter problems to enhance the "teachability" of this classic book in the classroom, as well

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as for self-study for practicing engineers.

Simulation is integral to the successful design of modern radar systems, and there is arguably no better software for this purpose than MATLAB. But software and the

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ability to use it does not guarantee success. One must also: Understand radar operations and design philosophy Know how to select the radar parameters to meet the design req

This book text provides an overview of the

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radar target

recognition process

and covers the key

techniques being

developed for

operational

systems. It is based

on the fundamental

scientific principles

of high resolution

radar, and explains

how the underlying

techniques can be

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used in real systems, taking into account the characteristics of practical radar system designs and component limitations. It also addresses operational aspects, such as how high resolution modes would fit in with



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other functions such as detection and tracking.

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been greatly  
expanded to include  
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airborne systems,  
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weapons, and non-  
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surveillance...to EW  
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architectures, real-time data links, and smart jamming. This authoritative resource provides engineers and students with the latest electronic warfare (EW) techniques and technologies related to on-board military platforms.

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systems. This  
unique book  
provides deeper  
insight into EW  
systems principles  
of operation and  
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descriptions, arming  
professionals with  
better knowledge for  
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Moreover, readers

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major revision of the  
popular textbook. It*



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context of  
communication  
theory as well as the  
theory of signals and  
noise. By  
emphasizing  
principles and  
fundamentals, the  
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vital source for  
students and*

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*engineers. Part I  
bridges the gap  
between  
communication,  
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radar. Topics  
include modulation  
techniques and  
associated  
Continuous Wave  
(CW) and pulsed  
radar systems. Part*

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*It is devoted to  
radar signal  
processing and pulse  
compression*

*techniques. Part III  
presents special  
topics in radar  
systems including  
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radar clutter, target  
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new exercise are  
included and the  
author provides  
comprehensive easy-  
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mathematical  
derivations of all key  
equations and  
formulas. The author  
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U.S. Army, the U.S.  
Space and Missile  
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military agencies.*

*This is not just a  
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level and graduates  
students, but a  
valuable tool for  
practicing radar  
engineers. Features*

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leading industry  
radar professional.  
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analysis issues. Easy  
to follow  
mathematical  
derivations of all  
equations and  
formulas Numerous*

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*graphical plots and  
table format outputs.*

*One part of the book  
is dedicated to radar*

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*introduces the basic*

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systems. This book  
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radar works, how it  
differs from the  
active type, and*



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drawbacks of this  
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radar performance  
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provides concrete*

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tools that can be*

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and optimize real-  
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of the various  
statistical methods  
are provided,  
ensuring a deeper  
understanding of the  
basics. Packed with  
practical insights, it*

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*uses extensive  
examples from  
communication,  
telecommunication  
and radar  
engineering to  
illustrate how  
theoretical results  
are derived and  
applied in practice.  
A unique blend of  
theory and*

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over 80 analytical  
and computational  
end-of-chapter*

*problems make this  
an ideal resource for  
both graduate  
students and  
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*This text has fully  
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*and feel. Even the*  
*timeless principles*  
*and core*  
*fundamentals of*  
*general radar have*  
*been updated in*  
*wording and new*  
*graphics, while the*  
*more advanced*



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*concepts and*

*applications in*

*airborne radar have*

*been brought into*

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*radar signal*

*processing and solid*

*state electronics.*

*This text is written*

*specifically as an*

*overview without*

*going overboard on*

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*the math. Virtually anybody with a knowledge of high school algebra, trigonometry, and physics will be able to read and absorb the vast majority of the material. Living up to its moniker of Introduction, this book contains*

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exemplars to aid  
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immense number of  
illustrations, figures,*

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photographs.*

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Radar Expert,  
Esteemed Author  
Gregory L.*

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Gregory L.  
Charvat**

**appeared on CNN  
on March 17,  
2014 to discuss  
whether  
Malaysia  
Airlines Flight  
370 might have  
literally flown  
below the**

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radar. He  
appeared again  
on CNN on March  
20, 2014 to  
explain the  
basics of  
radar, and he  
explored the  
hope and  
limitations of  
the technology  
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**A practical**

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tool on radar  
systems that  
will be of  
major help to  
technicians,  
student  
engineers and  
engineers  
working in  
industry and in  
radar research  
and  
development.

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**The many users  
of radar as  
well as systems  
engineers and  
designers will  
also find it  
highly useful.  
Also of  
interest to  
pilots and  
flight  
engineers and  
military**



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focuses on the  
history, main

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**principles,  
functions,  
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properties and  
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of modern  
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The book  
examines  
radar's role  
within the  
system when  
carrying out is**

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**assigned**  
**missions,**  
showing the  
**possibilities**  
of radar as  
well as its  
**limitations.**  
Finally, given  
the changing  
operational  
requirements  
and the  
**potential**

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**opened up by  
modern  
technological  
developments, a  
concluding  
section  
describes how  
radar may  
evolve in the  
future. The  
authors review  
the current  
state of the**

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main types of  
airborne and  
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radar systems,  
designed for  
specific  
missions as  
well as for the  
global  
environment of  
their host  
aircraft or  
satellites.**

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**They include  
numerous  
examples of the  
parameters of  
these radars.**

**The emphasis in  
the book is not  
only on a  
particular  
radar  
technique, but  
equally on the  
main radar**

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**functions and  
missions. Even  
if a wide range  
of techniques  
are described  
in this book,  
the focus is on  
those which are  
connected to  
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context of  
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theory as well  
as the theory  
of signals and  
noise. Part I  
bridges the gap  
between  
communication**



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includes most  
common radar  
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processing  
techniques, the

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**theory of radar  
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integration,  
and radar  
clutter  
analysis. Part  
III of this  
Edition will  
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systems. Many**

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mathematical  
derivations of  
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**provided such  
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has been  
updated,  
expanded, and  
reorganized to  
include  
advances in the**

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**field and to be  
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sequence. Ideal  
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encountering  
the topic for  
the first time  
or for  
professionals  
in need of on-  
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reference, this  
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of radar along  
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**chapters on**

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function, and  
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Signal

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tackles the  
important issue of  
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digital signal  
processing  
operations. It also  
examines problems

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methods of robust  
signal processing in  
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approach to signal  
processing in noise  
under coherent  
filtering. In  
addition, the book  
puts forth a new  
problem statement  
and new methods

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to solve problems  
of adaptation and  
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systems, it offers  
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problems.



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defines their  
estimations for  
robust signal  
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processing, this  
book summarizes  
investigations

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students with  
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for designing the  
robust digital  
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ECCM for both  
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and passive ECM,  
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for reconnaissance  
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plan the operation  
of EW systems. As  
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methods for  
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range and explores  
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such as receivers,  
transmitters,  
antennas, data  
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also explains the  
target cross  
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echoes from

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and authoritative  
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The basic  
principles of radar

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do not change, but the design and technology of practical radar systems have developed rapidly in recent years.

Advances in digital electronics and computing are having a major impact, especially in radar signal processing and

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display. I hope that this book will prove a useful introduction to such developments, as well as to the underlying principles of radar detection.

This book contains the applications of radars, fundamentals and advanced concepts

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