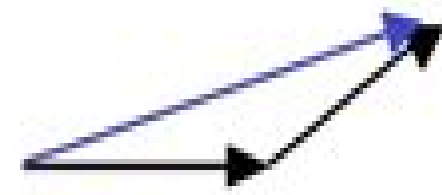
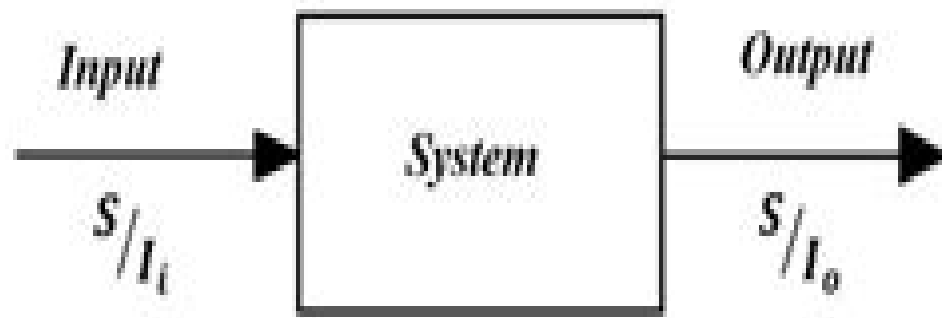


Composite Signal



Composite Signal



$$G_P = \frac{S/I_o}{S/I_i}$$

$$S/I = \frac{P_R}{P_I}$$

$$S/I = \frac{P_R}{P_I}$$

# Radar Signal Processing - Basic Concepts

**RADAR SYSTEMS**

# Radar Signal Processing

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multiple output radar as well as a series of chapters examining other key issues relevant to the central theme of the book

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twenty years of pioneering research by Professor Simon Haykin and his colleagues dealing with the use of adaptive radar signal processing to account for the nonstationary nature of the environment These results have profound implications for defense related signal processing and remote sensing References are provided in each chapter guiding the reader to the original research on which this book is based      *Digital Signal Processing Techniques and Applications in Radar Image Processing* Bu-Chin Wang, 2008-08-20 A self contained approach to DSP techniques and applications in radar imaging The processing of radar images in general consists of three major fields Digital Signal Processing DSP antenna and radar operation and algorithms used to process the radar images This book brings together material from these different areas to allow readers to gain a thorough understanding of how radar images are processed The book is divided into three main parts and covers DSP principles and signal characteristics in both analog and digital domains advanced signal sampling and interpolation techniques Antenna theory Maxwell equation radiation field from dipole and linear phased array radar fundamentals radar modulation and target detection techniques continuous wave pulsed Linear Frequency Modulation and stepped Frequency Modulation Properties of radar images algorithms used for radar image processing simulation examples and results of satellite image files processed by Range Doppler and Stolt interpolation algorithms The book fully utilizes the computing and graphical capability of MATLAB to display the signals at various processing stages in 3D and or cross sectional views Additionally the text is complemented with flowcharts and system block diagrams to aid in readers comprehension *Digital Signal Processing Techniques and Applications in Radar Image Processing* serves as an ideal textbook for graduate students and practicing engineers who wish to gain firsthand experience in applying DSP principles and technologies to radar imaging      *Radar Signal Processing* Michael Brancazio, 2017-05-05 Radar signal processing is the processing amplification and interpretation of radar signals      *MIMO Radar Signal Processing* Jian Li, Petre Stoica, 2008-10-10 The first book to present a systematic and coherent picture of MIMO radars Due to its potential to improve target detection and discrimination capability Multiple Input and Multiple Output MIMO radar has generated significant attention and widespread interest in academia industry government labs and funding agencies This important new work fills the need for a comprehensive treatment of this emerging field Edited and authored by leading researchers in the field of MIMO radar research this book introduces recent developments in the area of MIMO radar to stimulate new concepts theories and applications of the topic and to foster further cross fertilization of ideas with MIMO communications Topical coverage includes Adaptive MIMO radar Beampattern analysis and optimization for MIMO radar MIMO radar for target detection parameter estimation tracking association and recognition MIMO radar prototypes and measurements Space time codes for MIMO radar Statistical MIMO radar Waveform design for MIMO radar Written in an easy to follow tutorial style *MIMO Radar Signal Processing* serves as an excellent course book for graduate students and a valuable reference for researchers in academia and industry

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