

Session 1. Inventory Management : Order Planning.

Objectives :

- Identify types of inventory and how they are assessed from their different requirements and impacts on the planning process.
- Describe order review methodologies and apply them to different types of inventory and inventory strategies.
- Identify lot-sizing techniques, including the effects of order-quantity constraints and modifies.

1. Definition of Inventory.

• Definition of Inventory.

- Those stocks or items used to support production, supporting activities, and customer service.
- Demand for inventory may be dependent or independent.
- Inventory functions are anticipation, hedge, cycle, fluctuation, transportation, and service parts.
- In the theory of constraints.

Inventory is defined as those items purchased for resale and includes finished goods, raw materials.

Inventory is always valued at purchased price and includes no value-added costs, as opposed to the traditional cost accounting practice of adding direct labor and allocating overhead as work in process progress through the production process.

• Types of Inventory.

- Raw Materials (RAW).

RAW represents any material inputs used in a manufacturing process.

This includes manufactured products from other companies, referred to as finished goods at supplying company.

Raw materials form the lowest level of a bill-of-material structure, and typically constitute the longest portion of cumulative lead time.

- Work in Process (WIP).

While raw materials are in various stages of completion, they are referred to as work-in-process inventory.

The amount of work in process differs greatly from company to company, depending on the particular production process.

WIP form the middle levels of a bill-of-material structure.

Apics Dsp Study Notes

James D. Broesch



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APICS, the Performance Advantage ,1994-07 **Brief Notes in Advanced DSP** Artyom M. Grigoryan,Merughan Grigoryan,2018-10-03 Based on the authors research in Fourier analysis Brief Notes in Advanced DSP Fourier Analysis with MATLAB addresses many concepts and applications of digital signal processing DSP The included MATLAB codes illustrate how to apply the ideas in practice The book begins with the basic concept of the discrete Fourier transformation and its properties It then describes lifting schemes integer transformations the discrete cosine transform and the paired transform method for calculating the discrete Hadamard transform The text also examines the decomposition of the 1D signal by so called section basis signals as well as new forms of 2D signal image representation and decomposition by direction signals images Focusing on Fourier transform wavelets and Givens Haar transforms the last chapter discusses the problem of signal multiresolution This book presents numerous interesting problems and concepts of unitary transformations such as the Fourier Hadamard Hartley Haar paired cosine and new signal induced transformations It aids readers in using new forms and methods of signals and images in the frequency and frequency and time domains Understanding Digital Signal Processing Richard G. Lyons,2010-11-01 Amazon com s Top Selling DSP Book for Seven Straight Years Now Fully Updated Understanding Digital Signal Processing Third Edition is quite simply the best resource for engineers and other technical professionals who want to master and apply today s latest DSP techniques Richard G Lyons has updated and expanded his best selling second edition to reflect the newest technologies building on the exceptionally readable coverage that made it the favorite of DSP professionals worldwide He has also added hands on problems to every chapter giving students even more of the practical experience they need to succeed Comprehensive in scope and clear in approach this book achieves the perfect balance between theory and practice keeps math at a tolerable level and makes DSP exceptionally accessible to beginners without ever oversimplifying it Readers can thoroughly grasp the basics and quickly move on to more sophisticated techniques This edition adds extensive new coverage of FIR and IIR filter analysis techniques digital differentiators integrators and matched filters Lyons has significantly updated and expanded his discussions of multirate processing techniques which are crucial to modern wireless and satellite communications He also presents nearly twice as many DSP Tricks as in the second edition including techniques even seasoned DSP professionals may have overlooked Coverage includes New homework problems that deepen your understanding and help you apply what you ve learned Practical day to day DSP implementations and problem solving throughout Useful new guidance on generalized digital networks including discrete differentiators integrators and matched filters Clear descriptions of statistical measures of signals variance reduction by averaging and real world signal to noise ratio SNR computation A significantly expanded chapter on sample rate conversion multirate systems and associated filtering techniques New guidance on implementing fast convolution IIR filter scaling and more Enhanced coverage of analyzing digital filter behavior and performance for diverse communications and

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A Textbook of Digital Signal Processing R.S. Kaler, M. Kulkarni, 2009-07-11 This book presents theoretical and application topics in digital signal processing DSP The topics here comprise clever DSP tricks of the trade not covered in traditional DSP textbooks Here we go beyond the standard DSP fundamentals textbook and present new but tried n true clever implementations of digital filter design spectrum analysis signal generation high speed function approximation and various other DSP functions With this book we wished to create a resource that is relevant to the needs of the working DSP engineer by helping bridge the theory to practice gap between introductory DSP textbooks and the esoteric difficult to understand academic journals This book will be useful to experienced DSP engineers due to its gentle tutorial style it will also be of considerable value to the DSP beginner The mathematics used herein is simple algebra and the arithmetic of complex numbers making this material accessible to a wide engineering and scientific audience Fortunately the chapter topics in this book are written in a standalone manner so the subject matter can be read in any desired order **Digital Signal**

Processing, 2008 **The DSP Handbook** Andrew Bateman, Iain Paterson-Stephens, 2002 CD ROM contains a series of applications which have been designed to support the different topics covered **DSP First** James H. McClellan, Ronald W. Schafer, Mark A. Yoder, 2016 For introductory courses freshman and sophomore courses in Digital Signal Processing and Signals and Systems Text may be used before the student has taken a course in circuits DSP First and its accompanying digital assets are the result of more than 20 years of work that originated from and was guided by the premise that signal processing is the best starting point for the study of electrical and computer engineering The DSP First approach introduces the use of mathematics as the language for thinking about engineering problems lays the groundwork for subsequent courses and gives students hands on experiences with MATLAB The Second Edition features three new chapters on the Fourier

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