Section A: Demand Management

Term

Abnormal demand

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Section A: Demand Management

Term

Capable-to-promise (CTP)

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Section A: Demand Management

Term

Consuming the forecast

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Section A: Demand Management

Term

Customer relationship management (CRM)

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Section A: Demand Management

Term

Customer satisfaction

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Section A: Demand Management

Term

Customer service life cycle

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Section A: Demand Management

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Customer service ratio

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Section A: Demand Management

Term

Demand management

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The process of committing orders against available capacity as well as inventory. This process may involve multiple manufacturing or distribution sites. Used to determine when a new or unscheduled customer order can be delivered. Employs a finite-scheduling model of the manufacturing system to determine when an item can be delivered. Includes any constraints that might restrict the production, such as availability of resources, lead times for raw materials or purchased parts, and requirements for lower-level components or subassemblies. The resulting delivery date takes into consideration production capacity, the current manufacturing environment, and future order commitments. The objective is to reduce the time spent by production planners in expediting orders and adjusting plans because of inaccurate delivery-date promises.

Demand in any period that is outside the limits established by management policy. This demand may come from a new customer or from existing customers whose own demand is increasing or decreasing. Care must be taken in evaluating the nature of the demand: Is it a volume change? Is it a change in product mix? Is it related to the timing of the order? See: outlier.

A marketing philosophy based on putting the customer first. Involves the collection and analysis of information designed for sales and marketing decision support (in contrast to enterprise resources planning information) to understand and support existing and potential customer needs. Includes account management, catalog and order entry, payment processing, credits and adjustments, and other functions. Syn.: customer relations management.

The process of reducing the forecast by customer orders or other types of actual demands as they are received. The adjustments yield the value of the remaining forecast for each period. Syn.: forecast consumption.

In information systems, a model that describes the customer relationship as having four phases: requirements, acquisition, ownership, and retirement.

The results of delivering a good or service that meets customer requirements.

1) The function of recognizing all demands for goods and services to support the marketplace. It involves prioritizing demand when supply is lacking. [This] facilitates the planning and use of resources for profitable business results. 2) In marketing, the process of planning, executing, controlling, and monitoring the design, pricing, promotion, and distribution of products and services to bring about transactions that meet organizational and individual needs. Syn.: marketing management. See: demand planning.

1) A measure of delivery performance of finished goods or other cargo, usually expressed as a percentage. In a make-to-stock company, this percentage usually represents the number of items or dollars (on one or more customer orders) that were shipped on schedule for a specific time period, compared to the total that were supposed to be shipped in that time period. Syn.: customer service level, fill rate, order-fill ratio, percent of fill. Ant: stockout percentage. 2) In a make-to-order company, usually some comparison of the number of jobs or dollars shipped in a given time period (e.g., a week) compared with the number of jobs or dollars that were supposed to be shipped in that time period. Syn.: fill rate.

Section A: Demand Management

Term

Design for manufacturability

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Section A: Demand Management

Design for manufacture and assembly (DFMA)

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Section A: Demand Management

Term

Design for service

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Section A: Demand Management

Term

Early manufacturing involvement

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Section A: Demand Management

Term

Early supplier involvement (ESI)

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Section A: Demand Management

Term

Form-fit-function

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Section A: Demand Management

Term

Order fulfillment lead time

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Section A: Demand Management

Term

Plan-do-check-action (PDCA)

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A product development approach that involves the manufacturing function in the initial stages of product Simplification of parts, products, and processes to design to ensure ease of manufacturing and assembly. improve quality and reduce manufacturing costs. See: early manufacturing involvement. The process of involving manufacturing personnel early in the product design activity and drawing on their expertise, insights, and knowledge to generate better designs in less time and to generate designs that are easier to manufacture. Early involvement of manufacturing, field Simplification of parts and processes to improve the service, suppliers, customers, and so on means drawing on after-sale service of a product. Syn.: design for their expertise, knowledge, and insight to improve the maintainability. design. Benefits include increased functionality, increased quality, ease of manufacture and assembly, ease of testing, better testing procedures, ease of service, decreased cost, and improved aesthetics. See: design for manufacture and assembly, participative design/engineering. The process of involving suppliers early in the product A term used to describe the process of designing a design activity and drawing on their expertise, insights, and knowledge to generate better designs in less time part or product to meet or exceed the performance requirements expected by customers. and designs that are easier to manufacture with high quality. See: participative design/engineering. A four-step process for quality improvement. In the first step (plan), a plan to effect improvement is developed. In the second step (do), the plan is carried out, preferably on a small scale. In the third step (check), the effects of the plan are observed. In the last step (action), the results are studied to The average amount of time between the customer's determine what was learned and what can be predicted. The plan-do-check-action cycle is sometimes referred to as the order and the customer's receipt of delivery; this Shewhart cycle (because Walter A. Shewhart discussed the includes every manufacturing or processing step in concept in his book. "Statistical Method from the Viewpoint of between. Quality Control") or as the Deming circle (because W. Edwards Deming introduced the concept in Japan, and the Japanese subsequently called it the Deming circle). Syns.: plan-docheck-act cycle, Shewhart circle of quality, Shewhart cycle. See: Deming circle.

Section A: Demand Management

Term

Probability

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Section A: Demand Management

Term

Stockout probability

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Section A: Demand Management

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Trend forecasting models

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Section A: Demand Management

Term

Value perspective

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Section B: Sources of Demand/Forecasting

Term

Actual demand

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Section B: Sources of Demand/Forecasting

Term

Adaptive smoothing

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Backorder

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Section B: Sources of Demand/Forecasting

Term

Base series

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Mathematically, a number between 0 and 1 that estimates the fraction of experiments (if the same experiment were being repeated many times) in which The percentage chance of a product not being in stock a particular result would occur. This number can be when an order is placed. Syn.: cycle service level. either subjective or based upon the empirical results of experimentation. It can also be derived for a process to give the probable outcome of experimentation. A quality perspective that holds that quality must be Methods for forecasting sales data when a definite upward or downward pattern exists. Models include judged, in part, by how well the characteristics of a particular product or service align with the needs of a double exponential smoothing, regression, and triple specific user. smoothing. See: trend analysis. [Composed] of customer orders (and often allocations of items, ingredients, or raw materials to production or distribution). [This] nets against or "consumes" the forecast, depending upon the rules chosen over a time A form of exponential smoothing in which the smoothing constant is automatically adjusted as a horizon. For example, [this] will totally replace forecast function of forecast error measurement. inside the sold-out customer order backlog horizon (often called the demand time fence) but will net against the forecast outside this horizon based on the chosen forecast consumption rule. A standard succession of values of demand-over-time data used in forecasting seasonal items. This series of factors is usually based on the relative level of demand during the corresponding period of previous years. The An unfilled customer order or commitment. [This is] an average value of [this] over a seasonal cycle is 1.0. A

figure higher than 1.0 indicates that demand for that

period is higher than average; a figure less than 1.0

indicates less-than-average demand. For forecasting purposes, [it] is superimposed upon the average demand and trend in demand for the item in question. Syn.: base index. See: seasonal index, seasonality.

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immediate (or past due) demand against an item

See: stockout.

whose inventory is insufficient to satisfy the demand.

Section B: Sources of Demand/Forecasting

Term

Business-to-business e-commerce (B2B)

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Section B: Sources of Demand/Forecasting

Term

Business-to-consumer e-sales (B2C)

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Term

Correlation

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Term

Curve fitting

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Term

Decomposition

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Section B: Sources of Demand/Forecasting

Term

Delphi method

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Term

Demand forecasting

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Term

Dependent demand

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Business being conducted between businesses and final consumers, largely over the internet. It includes traditional brick and mortar businesses that also offer products online and businesses that trade exclusively on the internet.

Business conducted over the internet between businesses. The implication is that this connectivity will cause businesses to transform themselves via supply chain management to become virtual organizations—reducing costs, improving quality, reducing delivery lead time, and improving due-date performance.

An approach to forecasting based on a straight line, polynomial, or other curve that describes some historical time series data.

The relationship between two sets of data such that when one changes, the other is likely to make a corresponding change. If the changes are in the same direction, [this is positive]. When changes tend to occur in opposite directions, [this is negative]. When there is little correspondence or changes are random, [this is nonexistant].

A qualitative forecasting technique where the opinions of experts are combined in a series of iterations. The results of each iteration are used to develop the next, so that convergence of the experts' opinions is obtained. See: management estimation, panel consensus.

A method of forecasting where time series data is separated into up to three components—trend, seasonal, and cyclical—where trend includes the general horizontal upward or downward movement over time; seasonal includes a recurring demand pattern such as day of the week, weekly, monthly, or quarterly; and cyclical includes any repeating, nonseasonal pattern. A fourth component is random—that is, data with no pattern. The new forecast is made by projecting the patterns individually determined and then combining them. See: cyclical component, random component, seasonal component, trend component.

Demand that is directly related to or derived from the bill-of-material structure for other items or end products. Such demands are therefore calculated and need not and should not be forecast. A given inventory item may [also have] independent demand at any given time. For example, a part may simultaneously be the component of an assembly and sold as a service part. See: independent demand.

Forecasting the demand for a particular good, component, or service.

Section B: Sources of Demand/Forecasting

Term

Distribution channel

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Term

Distributor

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Term

Double smoothing

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Term

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Econometric model

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Term

Exponential smoothing forecast

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Term

Extrinsic forecasting method

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Term

First-order smoothing

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Section B: Sources of Demand/Forecasting

Term

Forecast

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A business that does not manufacture its own The distribution route, from raw materials through products but instead purchases and resells these consumption, along which products travel. See: products. Such a business usually maintains a finished channels of distribution, marketing channel. goods inventory. Syn.: wholesaler. A set of equations intended to be used simultaneously to capture the way in which dependent and Syn.: second-order smoothing. independent variables are interrelated. A type of weighted moving average forecasting technique in which past observations are geometrically discounted according to their age. The heaviest weight is assigned to A forecast method using a correlated leading indicator; the most recent data. [Data] points are weighted in for example, estimating furniture sales based on accordance with an exponential function of their age. The housing starts. [These] forecasts tend to be more technique makes use of a smoothing constant to apply to useful for large aggregations, such as total company the difference between the most recent forecast and the sales, than for individual product sales. Ant: intrinsic critical sales data, thus avoiding the necessity of carrying forecast method. See: quantitative forecasting historical sales data. The approach can be used for data technique. that exhibits no trend or seasonal patterns. Higher order [...] models can be used for data with either (or both) trend and seasonality.

An estimate of future demand [that] can be constructed using quantitative methods, qualitative methods, or a combination of methods, and it can be based on extrinsic (external) or intrinsic (internal) factors. [Various techniques] attempt to predict one or more of the four components of demand: cyclical, random, seasonal, and trend. Syn.: sales forecast. See: Box-Jenkins model, exponential smoothing forecast, extrinsic forecasting method, intrinsic forecasting method, moving average forecast, qualitative forecasting method, quantitative forecasting method.

A single exponential smoothing; a weighted moving average approach that is applied to forecasting problems where the data does not exhibit significant trend or seasonal patterns. Syn.: single exponential smoothing, single smoothing.

Section B: Sources of Demand/Forecasting

Term

Forecast horizon

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Term

Forecast interval

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Term

Forecasting

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Term

Historical analogy

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Term

Independent demand

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Term

Intrinsic forecast method

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Term

Leading indicator

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Section B: Sources of Demand/Forecasting

Term

Least-squares method

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| The time unit for which forecasts are prepared, such as week, month, or quarter. Syn.: forecast period. | The period of time into the future for which a forecast is prepared. |
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| A judgmental forecasting technique based on identifying a sales history that is analogous to a present situation, such as the sales history of a similar product, and using that past pattern to predict future sales. See: management estimation. | The business function that attempts to predict sales and use of products so they can be purchased or manufactured in appropriate quantities in advance. |
| A forecast based on internal factors, such as an average of past sales. Ant: extrinsic forecast. | The demand for an item that is unrelated to the demand for other items. Demand for finished goods, parts required for destructive testing, and service parts requirements are examples of independent demand. See: dependent demand. |
| A method of curve fitting that selects a line of best fit through a plot of data to minimize the sum of squares of the deviations of the given points from the line. See: regression analysis. | A specific business activity index that indicates future trends. [Housing starts is an example of this] for the industry that supplies builders' hardware. |

Section B: Sources of Demand/Forecasting

Term

Life cycle analysis

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Term

Mix forecast

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Moving average

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Multiple regression models

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Panel consensus

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Pyramid forecasting

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Qualitative forecasting techniques

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Term

Quantitative forecasting techniques

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Forecast of the proportion of products that will be sold within a given product family, or the proportion of options offered within a product line. Product and option mix as well as aggregate product families must be forecasted. Even though the appropriate level of units is forecasted for a given product line, [...] material shortages and inventory problems [can be created if this is inaccurate].

A quantitative forecasting technique based on applying past patterns of demand data covering introduction, growth, maturity, saturation, and decline of similar products to a new product family.

A form of regression analysis where the model involves more than one independent variable, such as developing a forecast of dishwasher sales based upon housing starts, gross national product, and disposable income. An arithmetic average of a certain number (n) of the most recent observations. As each new observation is added, the oldest observation is dropped. The value of n (the number of periods to use for the average) reflects responsiveness versus stability in the same way that the choice of smoothing constant does in exponential smoothing. There are two [types...]: simple and weighted. See: simple moving average, weighted moving average.

A forecasting technique that enables management to review and adjust forecasts made at an aggregate level and to keep lower-level forecasts in balance. The approach combines the stability of aggregate forecasts and the application of management judgment with the need to forecast many end items within the constraints of an aggregate forecast or sales plan. The procedure begins with the roll up (aggregation) of item forecasts into forecasts by product group. The management team establishes a (new) forecast for the product group. The value is then forced down (disaggregation) to individual item forecasts so they are consistent with the aggregate plan. See: management estimation, planning bill of material, product group forecast.

A judgmental forecasting technique by which a committee, sales force, or group of experts arrives at a sales estimate. See: Delphi method, management estimation.

An approach to forecasting where historical demand data is used to project future demand. Extrinsic and intrinsic techniques are typically used. See: extrinsic forecasting method, intrinsic forecasting method.

An approach to forecasting that is based on intuitive or judgmental evaluation. It is used generally when data is scarce, not available, or no longer relevant. Common [types...] include personal insight, sales force estimates, panel consensus, market research, visionary forecasting, and the Delphi method. Examples include developing long-range projections and new product introductions.

Section B: Sources of Demand/Forecasting

Term

Regression analysis

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Seasonal index

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Seasonality

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Term

Second-order smoothing

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Term

Single exponential smoothing

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Term

Smoothing constant

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Term

Time bucket

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Section B: Sources of Demand/Forecasting

Term

Time series analysis

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1) A number used to adjust data to seasonal demand. A statistical technique for determining the best 2) Manipulations to the buffer size that affect inventory mathematical expression describing the functional positions by adjusting buffers to follow seasonal relationship between one response and one or more patterns. Syn.: seasonal adjustment. See: base series. independent variables. See: least-squares method. A predictable repetitive pattern of demand measured A method of exponential smoothing for trend situations within a year where demand grows and declines. that employs two previously computed averages, the These are calendar-related patterns that can appear singly and doubly smoothed values, to extrapolate into annually, quarterly, monthly, weekly, daily and/or the future. Syn.: double smoothing. hourly. Syn.: seasonal variation. See: base series. In exponential smoothing, the weighting factor that is applied to the most recent demand, observation, or error. In this case, the error is defined as the difference between actual demand and the forecast for the most Syn.: first-order smoothing. recent period. The weighting factor is represented by the symbol α . Theoretically, the range of α is 0.0 to 1. Syn.: alpha factor, smoothing factor. Analysis of any variable classified by time in which the A number of days of data summarized into a columnar values of the variable are functions of the time periods. or row-wise display. For example, a weekly [type of this] Time series analysis is used in forecasting. A time contains all the relevant data for an entire week [and is] series consists of seasonal, cyclical, trend, and random considered to be the largest possible (at least in the components. See: cyclical component, random near and medium term) to permit effective MRP. component, seasonal component, trend component.

Section B: Sources of Demand/Forecasting

Term

Time series forecasting

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Transaction channel

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Term

Trend

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Section B: Sources of Demand/Forecasting

Term

Weighted moving average

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Section C: Forecast Performance

Term

Bias

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Section C: Forecast Performance

Term

Bullwhip effect

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Section C: Forecast Performance

Term

Collaborative planning, forecasting, and replenishment (CPFR)

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Section C: Forecast Performance

Term

Demand filter

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A distribution network that deals with change of A forecasting method that projects historical data patterns into the future. Involves the assumption that ownership of goods and services including the activities of negotiation, selling, and contracting. the near-term future will be like the recent past. An averaging technique in which the data to be averaged is not uniformly weighted but is given values General upward or downward movement of a variable according to its importance. See: moving average, over time (e.g., demand, process attribute). simple moving average. An extreme change in the supply position upstream in a supply chain generated by a small change in demand downstream in the supply chain. Inventory A consistent deviation from the mean in one direction can quickly move from being backordered to being (high or low). A normal property of a good forecast is excess. This is caused by the serial nature of that it is not [affected by this]. See: average forecast communicating orders up the chain with the inherent error. transportation delays of moving product down the chain. [This] can be eliminated by synchronizing the supply chain. A standard set to monitor sales data for individual A collaboration process whereby supply chain trading items in forecasting models. Usually set to be tripped partners can jointly plan key supply chain activities when the demand for a period differs from the forecast from production and delivery of raw materials to by more than some number of mean absolute production and delivery of final products to end deviations. customers.

| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
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| Term Distribution of forecast errors | Term Extrapolation |
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| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
| Term Focus forecasting | Term Forecast error |
| APICS CPIM Learning System © 2024 | APICS CPIM Learning System © 2024 |
| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
| Term Forecast management | Term Mean |
| APICS CPIM Learning System © 2024 | APICS CPIM Learning System © 2024 |
| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
| Term Mean absolute deviation (MAD) | Term Median |

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Tabulation of the forecast errors according to the frequency of occurrence of each error value. The errors Estimation of the future value of some data series in forecasting are, in many cases, normally distributed based on past observations. Statistical forecasting is a common example. Syn.: projection. even when the observed data does not come from a normal distribution. The difference between actual demand and forecast demand. [It] can be represented several different ways: mean absolute deviation (MAD); mean absolute A system that allows the user to simulate the percentage error (MAPE); and mean squared error effectiveness of numerous forecasting techniques, (MSE). See: mean absolute deviation (MAD), mean enabling selection of the most effective one. absolute percentage error (MAPE), mean squared error (MSE). The process of making, checking, correcting, and The arithmetic average of a group of values. Syn.: using forecasts. It also includes determination of the arithmetic mean. forecast horizon. The average of the absolute values of the deviations of observed values from some expected value. [This] can The middle value in a set of measured values when the be calculated based on observations and the items are arranged in order of magnitude. If there is no arithmetic mean of those observations. An alternative single middle value, [it] is the mean of the two middle is to calculate absolute deviations of actual sales data values. minus forecast data. This data can be averaged in the usual arithmetic way or with exponential smoothing. See: forecast error, tracking signal.

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| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
| Term Mode | Term Normal distribution |
| APICS CPIM Learning System © 2024 | APICS CPIM Learning System © 2024 |
| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
| Term Outlier | Term Probability distribution |
| APICS CPIM Learning System © 2024 | APICS CPIM Learning System © 2024 |
| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
| Term Sample | Term Sampling distribution |
| APICS CPIM Learning System © 2024 | APICS CPIM Learning System © 2024 |
| Module 3 Section C: Forecast Performance | Module 3 Section C: Forecast Performance |
| Term Standard deviation | Term Tracking signal |

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A particular statistical distribution where most of the observations fall fairly close to one mean, and a The most common or frequent value in a group of deviation from the mean is as likely to be plus as it is to values. be minus. When graphed, [it] takes the form of a bellshaped curve. A data point that differs significantly from other data for a similar phenomenon. For example, if the average A table of numbers or a mathematical expression that sales for a product were 10 units per month, and one indicates the frequency with which each of all possible month the product had sales of 500 units, this sales results of an experiment should occur. point might be considered [an example of this]. See: abnormal demand. A portion of a universe of data chosen to estimate some characteristics about the whole universe. The The distribution of values of a statistic calculated from universe of data could consist of sizes of customer samples of a given size. orders, number of units of inventory, number of lines on a purchase order, and so forth. A measurement of dispersion of data or of a variable. The ratio of the cumulative algebraic sum of the [It] is computed by finding the differences between the deviations between the forecasts and the actual values average and actual observations, squaring each to the mean absolute deviation. Used to signal when difference, adding the squared differences, dividing by the validity of the forecasting model might be in doubt. n-1 (for a sample), and taking the square root of the See: forecast error, mean absolute deviation. result.