

Production And Operations Analysis Solutions

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OIL AND GAS PRODUCTION HANDBOOK: AN INTRODUCTION TO OIL AND GAS PRODUCTION - HAVARD DEVOLD 2013

STYRENE BUTADIENE RUBBER PRODUCTION - COST ANALYSIS - SBR E11A - INTRATEC 2016-03-01

THIS REPORT PRESENTS A COST ANALYSIS OF STYRENE BUTADIENE RUBBER (SBR) PRODUCTION VIA COLD EMULSION POLYMERIZATION PROCESS. THE PROCESS EXAMINED IS A TYPICAL CONTINUOUS COLD EMULSION PROCESS FOR PRODUCING A NON-STAINING, NON-OIL EXTENDED SBR GRADE (SIMILAR TO 1502). IN THIS PROCESS, AN EMULSION COMPRISING WATER, STYRENE AND BUTADIENE MONOMERS IS POLYMERIZED INTO A LATEX, WHICH IS THEN COAGULATED TO FORM THE STYRENE-BUTADIENE RUBBER. THIS REPORT EXAMINES ONE-TIME COSTS ASSOCIATED WITH THE CONSTRUCTION OF A UNITED STATES-BASED PLANT AND THE CONTINUING COSTS ASSOCIATED WITH THE DAILY OPERATION OF SUCH A PLANT. MORE SPECIFICALLY, IT DISCUSSES: * CAPITAL INVESTMENT, BROKEN DOWN BY: - TOTAL FIXED CAPITAL REQUIRED, DIVIDED IN PRODUCTION UNIT (ISBL); INFRASTRUCTURE (OSBL) AND CONTINGENCY - ALTERNATIVE PERSPECTIVE ON THE TOTAL FIXED CAPITAL, DIVIDED IN DIRECT COSTS, INDIRECT COSTS AND CONTINGENCY - WORKING CAPITAL AND COSTS INCURRED DURING INDUSTRIAL PLANT COMMISSIONING AND START-UP * PRODUCTION COST, BROKEN DOWN BY: - MANUFACTURING VARIABLE COSTS (RAW MATERIALS, UTILITIES) - MANUFACTURING FIXED COSTS (MAINTENANCE COSTS, OPERATING CHARGES, PLANT OVERHEAD, LOCAL TAXES AND INSURANCE) - DEPRECIATION AND CORPORATE OVERHEAD COSTS * RAW MATERIALS CONSUMPTION, PRODUCTS GENERATION AND LABOR REQUIREMENTS * PROCESS BLOCK FLOW DIAGRAM AND DESCRIPTION OF INDUSTRIAL SITE INSTALLATIONS (PRODUCTION UNIT AND INFRASTRUCTURE) THIS REPORT WAS DEVELOPED BASED ESSENTIALLY ON THE FOLLOWING REFERENCE(S): "STYRENE-BUTADIENE RUBBER", KIRK-OTHMER ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY, 5TH EDITION KEYWORDS:

POLYMERIZATION, STYRENE BUTADIENE RUBBER, eSBR, BD

PRODUCTION AND OPERATIONS ANALYSIS - STEVEN NAHMIA 2015-01-15

THE SEVENTH EDITION OF PRODUCTION AND OPERATIONS ANALYSIS BUILDS A SOLID FOUNDATION FOR BEGINNING STUDENTS OF PRODUCTION AND OPERATIONS MANAGEMENT. CONTINUING A LONG TRADITION OF EXCELLENCE, NAHMIA AND OLSEN BRING DECADES OF COMBINED EXPERIENCE TO CRAFT THE MOST CLEAR AND UP-TO-DATE RESOURCE AVAILABLE. THE AUTHORS' THOROUGH UPDATES INCLUDE INCORPORATION OF CURRENT TECHNOLOGY THAT IMPROVES THE EFFECTIVENESS OF PRODUCTION PROCESSES, ADDITIONAL QUALITATIVE SECTIONS, AND NEW MATERIAL ON SERVICE OPERATIONS MANAGEMENT AND SERVICIZATION. BOLSTERED BY COPIOUS EXAMPLES AND PROBLEMS, EACH CHAPTER STANDS ALONE, ALLOWING INSTRUCTORS TO TAILOR THE MATERIAL TO THEIR SPECIFIC NEEDS. THE TEXT IS ESSENTIAL READING FOR LEARNING HOW TO BETTER ANALYZE AND IMPROVE ON ALL FACETS OF OPERATIONS.

PAIN MANAGEMENT AND THE OPIOID EPIDEMIC - NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE 2017-09-28

DRUG OVERDOSE, DRIVEN LARGELY BY OVERDOSE RELATED TO THE USE OF OPIOIDS, IS NOW THE LEADING CAUSE OF UNINTENTIONAL INJURY DEATH IN THE UNITED STATES. THE ONGOING OPIOID CRISIS LIES AT THE INTERSECTION OF TWO PUBLIC HEALTH CHALLENGES: REDUCING THE BURDEN OF SUFFERING FROM PAIN AND CONTAINING THE RISING TOLL OF THE HARMS THAT CAN ARISE FROM THE USE OF OPIOID MEDICATIONS. CHRONIC PAIN AND OPIOID USE DISORDER BOTH REPRESENT COMPLEX HUMAN CONDITIONS AFFECTING MILLIONS OF AMERICANS AND CAUSING UNTOLD DISABILITY AND LOSS OF FUNCTION. IN THE CONTEXT OF THE GROWING OPIOID PROBLEM, THE U.S. FOOD AND DRUG ADMINISTRATION (FDA) LAUNCHED AN OPIOIDS ACTION PLAN IN EARLY 2016. AS PART OF THIS PLAN, THE FDA ASKED THE NATIONAL ACADEMIES OF SCIENCES, ENGINEERING, AND MEDICINE TO CONVENE A COMMITTEE TO UPDATE THE STATE OF THE SCIENCE ON PAIN RESEARCH, CARE, AND EDUCATION AND TO IDENTIFY

ACTIONS THE FDA AND OTHERS CAN TAKE TO RESPOND TO THE OPIOID EPIDEMIC, WITH A PARTICULAR FOCUS ON INFORMING FDA'S DEVELOPMENT OF A FORMAL METHOD FOR INCORPORATING INDIVIDUAL AND SOCIETAL CONSIDERATIONS INTO ITS RISK-BENEFIT FRAMEWORK FOR OPIOID APPROVAL AND MONITORING.

BUSINESS PROCESSES: OPERATIONAL SOLUTIONS FOR SAP IMPLEMENTATION - PORTOUGAL, VICTOR 2005-12-31

"THIS BOOK IS ABOUT ENTERPRISE RESOURCE PLANNING (ERP) SYSTEMS IMPLEMENTATION, FOCUSING ON BUSINESS OPERATIONS/PROCESSES AND INFORMATION SYSTEMS TO SUPPORT BUSINESS OPERATIONS/PROCESSES"--PROVIDED BY PUBLISHER.

PREDICTIVE MODELING OF PHARMACEUTICAL UNIT OPERATIONS - PREETANSHU PANDEY 2016-09-26

THE USE OF MODELING AND SIMULATION TOOLS IS RAPIDLY GAINING PROMINENCE IN THE PHARMACEUTICAL INDUSTRY COVERING A WIDE RANGE OF APPLICATIONS. THIS BOOK FOCUSES ON MODELING AND SIMULATION TOOLS AS THEY PERTAIN TO DRUG PRODUCT MANUFACTURING PROCESSES, ALTHOUGH SIMILAR PRINCIPLES AND TOOLS MAY APPLY TO MANY OTHER AREAS. MODELING TOOLS CAN IMPROVE FUNDAMENTAL PROCESS UNDERSTANDING AND PROVIDE VALUABLE INSIGHTS INTO THE MANUFACTURING PROCESSES, WHICH CAN RESULT IN SIGNIFICANT PROCESS IMPROVEMENTS AND COST SAVINGS. WITH FDA MANDATING THE USE OF QUALITY BY DESIGN (QbD) PRINCIPLES DURING MANUFACTURING, RELIABLE MODELING TECHNIQUES CAN HELP TO ALLEVIATE THE COSTS ASSOCIATED WITH SUCH EFFORTS, AND BE USED TO CREATE IN SILICO FORMULATION AND PROCESS DESIGN SPACE. THIS BOOK IS GEARED TOWARD DETAILING MODELING TECHNIQUES THAT ARE UTILIZED FOR THE VARIOUS UNIT OPERATIONS DURING DRUG PRODUCT MANUFACTURING. BY WAY OF EXAMPLES THAT INCLUDE CASE STUDIES, VARIOUS MODELING PRINCIPLES ARE EXPLAINED FOR THE NONEXPERT END USERS. A DISCUSSION ON THE ROLE OF MODELING IN QUALITY RISK MANAGEMENT FOR MANUFACTURING AND APPLICATION OF MODELING FOR CONTINUOUS MANUFACTURING AND BIOLOGICS IS ALSO INCLUDED. EXPLAINS THE COMMONLY USED MODELING AND SIMULATION TOOLS DETAILS THE MODELING OF VARIOUS UNIT OPERATIONS COMMONLY UTILIZED IN SOLID DOSAGE DRUG PRODUCT MANUFACTURING PRACTICAL EXAMPLES OF THE APPLICATION OF MODELING TOOLS THROUGH CASE STUDIES DISCUSSION OF MODELING TECHNIQUES USED FOR A RISK-BASED APPROACH TO REGULATORY FILINGS EXPLORES THE USAGE OF MODELING IN UPCOMING AREAS SUCH AS CONTINUOUS MANUFACTURING AND BIOLOGICS MANUFACTURING

BULLET POINTS

DRAWDOWN - PAUL HAWKEN 2017-04-18

• NEW YORK TIMES BESTSELLER • THE 100 MOST SUBSTANTIVE SOLUTIONS TO REVERSE GLOBAL WARMING, BASED ON METICULOUS RESEARCH BY LEADING SCIENTISTS AND POLICYMAKERS AROUND THE WORLD "AT THIS POINT IN TIME, THE DRAWDOWN BOOK IS EXACTLY WHAT IS NEEDED; A CREDIBLE, CONSERVATIVE SOLUTION-BY-SOLUTION NARRATIVE THAT WE CAN DO IT. READING IT IS AN EFFECTIVE INOCULATION AGAINST THE WIDESPREAD PERCEPTION OF DOOM THAT HUMANITY CANNOT AND WILL NOT SOLVE THE CLIMATE CRISIS.

REPORTED BY-EFFECTS INCLUDE INCREASED DETERMINATION AND A SENSE OF GROUNDED HOPE." —PER ESPEN STOKNES, AUTHOR, WHAT WE THINK ABOUT WHEN WE TRY NOT TO THINK ABOUT GLOBAL WARMING "THERE'S BEEN NO REAL WAY FOR ORDINARY PEOPLE TO GET AN UNDERSTANDING OF WHAT THEY CAN DO AND WHAT IMPACT IT CAN HAVE. THERE REMAINS NO SINGLE, COMPREHENSIVE, RELIABLE COMPENDIUM OF CARBON-REDUCTION SOLUTIONS ACROSS SECTORS. AT LEAST UNTIL NOW. . . . THE PUBLIC IS HUNGRY FOR THIS KIND OF PRACTICAL WISDOM." —DAVID ROBERTS, VOX "THIS IS THE IDEAL ENVIRONMENTAL SCIENCES TEXTBOOK—ONLY IT IS TOO INTERESTING AND INSPIRING TO BE CALLED A TEXTBOOK." —PETER KAREIVA, DIRECTOR OF THE INSTITUTE OF THE ENVIRONMENT AND SUSTAINABILITY, UCLA IN THE FACE OF WIDESPREAD FEAR AND APATHY, AN INTERNATIONAL COALITION OF RESEARCHERS, PROFESSIONALS, AND SCIENTISTS HAVE COME TOGETHER TO OFFER A SET OF REALISTIC AND BOLD SOLUTIONS TO CLIMATE CHANGE. ONE HUNDRED TECHNIQUES AND PRACTICES ARE DESCRIBED HERE—SOME ARE WELL KNOWN; SOME YOU MAY HAVE NEVER HEARD OF. THEY RANGE FROM CLEAN ENERGY TO EDUCATING GIRLS IN LOWER-INCOME COUNTRIES TO LAND USE PRACTICES THAT PULL CARBON OUT OF THE AIR. THE SOLUTIONS EXIST, ARE ECONOMICALLY VIABLE, AND COMMUNITIES THROUGHOUT THE WORLD ARE CURRENTLY ENACTING THEM WITH SKILL AND DETERMINATION. IF DEPLOYED COLLECTIVELY ON A GLOBAL SCALE OVER THE NEXT THIRTY YEARS, THEY REPRESENT A CREDIBLE PATH FORWARD, NOT JUST TO SLOW THE EARTH'S WARMING BUT TO REACH DRAWDOWN, THAT POINT IN TIME WHEN GREENHOUSE GASES IN THE ATMOSPHERE PEAK AND BEGIN TO DECLINE. THESE MEASURES PROMISE CASCADING BENEFITS TO HUMAN HEALTH, SECURITY, PROSPERITY, AND WELL-BEING—GIVING US EVERY REASON TO SEE THIS PLANETARY CRISIS AS AN OPPORTUNITY TO CREATE A JUST AND LIVABLE WORLD.

THE GOAL - ELIYAHU M. GOLDRATT 2016-08-12

ALEX ROGO IS A HARRIED PLANT MANAGER WORKING EVER MORE DESPERATELY TO TRY AND IMPROVE PERFORMANCE. HIS FACTORY IS RAPIDLY HEADING FOR DISASTER. SO IS HIS MARRIAGE. HE HAS NINETY DAYS TO SAVE HIS PLANT - OR IT WILL BE CLOSED BY CORPORATE HQ, WITH HUNDREDS OF JOB LOSSES. IT TAKES A CHANCE MEETING WITH A COLLEAGUE FROM STUDENT DAYS - JONAH - TO HELP HIM BREAK OUT OF CONVENTIONAL WAYS OF THINKING TO SEE WHAT NEEDS TO BE DONE. DESCRIBED BY FORTUNE AS A 'GURU TO INDUSTRY' AND BY BUSINESSWEEK AS A 'GENIUS', ELIYAHU M. GOLDRATT WAS AN INTERNATIONALLY RECOGNIZED LEADER IN THE DEVELOPMENT OF NEW BUSINESS MANAGEMENT CONCEPTS AND SYSTEMS. THIS 20TH ANNIVERSARY EDITION INCLUDES A SERIES OF DETAILED CASE STUDY INTERVIEWS BY DAVID WHITFORD, EDITOR AT LARGE, FORTUNE SMALL BUSINESS, WHICH EXPLORE HOW ORGANIZATIONS AROUND THE WORLD HAVE BEEN TRANSFORMED BY ELI GOLDRATT'S IDEAS. THE STORY OF ALEX'S FIGHT TO SAVE HIS PLANT CONTAINS A SERIOUS MESSAGE FOR ALL MANAGERS IN INDUSTRY AND EXPLAINS THE IDEAS WHICH UNDERLINE THE THEORY OF CONSTRAINTS (TOC) DEVELOPED BY ELI GOLDRATT. WRITTEN IN A FAST-PACED THRILLER STYLE, THE GOAL IS THE GRIPPING NOVEL WHICH IS TRANSFORMING MANAGEMENT THINKING THROUGHOUT THE WESTERN WORLD. IT IS A BOOK TO RECOMMEND

TO YOUR FRIENDS IN INDUSTRY - EVEN TO YOUR BOSSES - BUT NOT TO YOUR COMPETITORS!
ADVANCED PRODUCTION DECLINE ANALYSIS AND APPLICATION - HEDONG SUN
2015-02-12

IN RECENT YEARS, PRODUCTION DECLINE-CURVE ANALYSIS HAS BECOME THE MOST WIDELY USED TOOL IN THE INDUSTRY FOR OIL AND GAS RESERVOIR PRODUCTION ANALYSIS. HOWEVER, MOST CURVE ANALYSIS IS DONE BY COMPUTER TODAY, PROMOTING A "BLACK-BOX" APPROACH TO ENGINEERING AND LEAVING ENGINEERS WITH LITTLE BACKGROUND IN THE FUNDAMENTALS OF DECLINE ANALYSIS. *ADVANCED PRODUCTION DECLINE ANALYSIS AND APPLICATION* STARTS FROM THE BASIC CONCEPT OF ADVANCED PRODUCTION DECLINE ANALYSIS, AND THOROUGHLY DISCUSSES SEVERAL DECLINE METHODS, SUCH AS ARPS, FETKOVICH, BLASINGAME, AGARWAL-GARDNER, NPI, TRANSIENT, LONG LINEAR FLOW, AND FMB. A PRACTICAL SYSTEMATIC INTRODUCTION TO EACH METHOD HELPS THE RESERVOIR ENGINEER UNDERSTAND THE PHYSICAL AND MATHEMATICAL MODELS, SOLVE THE TYPE CURVES AND MATCH UP ANALYSIS, ANALYZE THE PROCESSES AND EXAMPLES, AND RECONSTRUCT ALL THE EXAMPLES BY HAND, GIVING WAY TO MASTER THE FUNDAMENTALS BEHIND THE SOFTWARE. AN APPENDIX EXPLAINS THE NOMENCLATURE AND MAJOR EQUATIONS, AND AS AN ADDED BONUS, ONLINE COMPUTER PROGRAMS ARE AVAILABLE FOR DOWNLOAD. UNDERSTAND THE MOST COMPREHENSIVE AND CURRENT LIST OF DECLINE METHODS, INCLUDING ARPS, FETKOVICH, BLASINGAME, AND AGARWAL-GARDNER GAIN EXPERT KNOWLEDGE WITH PRINCIPLES, PROCESSES, REAL-WORLD CASES AND FIELD EXAMPLES INCLUDES ONLINE DOWNLOADABLE COMPUTER PROGRAMS ON BLASINGAME DECLINE TYPE CURVES AND NORMALIZED PSEUDO-PRESSURE OF GAS WELLS

ENCYCLOPEDIA OF OPERATIONS RESEARCH AND MANAGEMENT SCIENCE - SAUL I. GASS
2012-12-06

OPERATIONS RESEARCH: 1934-1941," 35, 1, 143-152; "BRITISH THE GOAL OF THE ENCYCLOPEDIA OF OPERATIONS RESEARCH AND OPERATIONAL RESEARCH IN WORLD WAR II," 35, 3, 453-470; MANAGEMENT SCIENCE IS TO PROVIDE TO DECISION MAKERS AND "U. S. OPERATIONS RESEARCH IN WORLD WAR II," 35, 6, 910-925; PROBLEM SOLVERS IN BUSINESS, INDUSTRY, GOVERNMENT AND AND THE 1984 ARTICLE BY HAROLD LARDNER THAT APPEARED IN ACADEMIA A COMPREHENSIVE OVERVIEW OF THE WIDE RANGE OF OPERATIONS RESEARCH: "THE ORIGIN OF OPERATIONAL RESEARCH," IDEAS, METHODOLOGIES, AND SYNERGISTIC FORCES THAT COMBINE TO 32, 2, 465-475. FORM THE PREEMINENT DECISION-AIDING FIELDS OF OPERATIONS RESEARCH AND MANAGEMENT SCIENCE (OR/MS). TO THIS END, WE THE ENCYCLOPEDIA CONTAINS NO ENTRIES THAT DEFINE THE FIELDS ENLISTED A DISTINGUISHED INTERNATIONAL GROUP OF ACADEMICS OF OPERATIONS RESEARCH AND MANAGEMENT SCIENCE. OR AND MS AND PRACTITIONERS TO CONTRIBUTE ARTICLES ON SUBJECTS FOR ARE OFTEN EQUATED TO ONE ANOTHER. IF ONE DEFINES THEM BY THE WHICH THEY ARE RENOWNED. METHODOLOGIES THEY EMPLOY, THE EQUATION WOULD PROBABLY THE EDITORS, WORKING WITH THE ENCYCLOPEDIA'S EDITORIAL STAND INSPECTION. IF ONE DEFINES THEM BY THEIR HISTORICAL ADVISORY BOARD, SURVEYED AND DIVIDED OR/MS INTO

SPECIFIC DEVELOPMENTS AND THE CLASSES OF PROBLEMS THEY ENCOMPASS, TOPICS THAT COLLECTIVELY ENCOMPASS THE FOUNDATIONS, APPLICA THE EQUATION BECOMES FUZZY. THE FORMALISM OR GREW OUT OF TIONS, AND EMERGING ELEMENTS OF THIS EVER-CHANGING FIELD. WE THE OPERATIONAL PROBLEMS OF THE BRITISH AND U. S. MILITARY ALSO WANTED TO ESTABLISH THE CLOSE ASSOCIATIONS THAT OR/MS EFFORTS IN WORLD WAR II.
APPLIED BIG DATA ANALYTICS IN OPERATIONS MANAGEMENT - KUMAR, MANISH
2016-09-30

OPERATIONS MANAGEMENT IS A TOOL BY WHICH COMPANIES CAN EFFECTIVELY MEET CUSTOMERS' NEEDS USING THE LEAST AMOUNT OF RESOURCES NECESSARY. WITH THE EMERGENCE OF SENSORS AND SMART METERING, BIG DATA IS BECOMING AN INTRINSIC PART OF MODERN OPERATIONS MANAGEMENT. *APPLIED BIG DATA ANALYTICS IN OPERATIONS MANAGEMENT* ENUMERATES THE CHALLENGES AND CREATIVE SOLUTIONS AND TOOLS TO APPLY WHEN USING BIG DATA IN OPERATIONS MANAGEMENT. OUTLINING REVOLUTIONARY CONCEPTS AND APPLICATIONS THAT HELP BUSINESSES PREDICT CUSTOMER BEHAVIOR ALONG WITH APPLICATIONS OF ARTIFICIAL NEURAL NETWORKS, PREDICTIVE ANALYTICS, AND OPINION MINING ON BUSINESS MANAGEMENT, THIS COMPREHENSIVE PUBLICATION IS IDEAL FOR IT PROFESSIONALS, SOFTWARE ENGINEERS, BUSINESS PROFESSIONALS, MANAGERS, AND STUDENTS OF MANAGEMENT.

SURFACE PRODUCTION OPERATIONS: VOLUME IV: PUMPS AND COMPRESSORS - MAURICE STEWART 2018-11-27

FOR OVER THIRTY YEARS, THE SURFACE PRODUCTION OPERATIONS SERIES HAS TAKEN THE GUESS WORK OUT OF THE DESIGN, SELECTION, INSTALLATION, OPERATION, TESTING, AND TROUBLESHOOTING OF SURFACE PRODUCTION EQUIPMENT. THE FOURTH VOLUME IN THIS SERIES, PUMPS AND COMPRESSORS IS DIRECTED TO BOTH ENTRY-LEVEL PERSONNEL AND PRACTICING PROFESSIONALS LOOKING FOR AN UP-TO-DATE REFERENCE BOOK ON MANAGING, EVALUATING, SIZING, SELECTING, INSTALLING, OPERATING AND MAINTAINING PUMP AND COMPRESSOR SYSTEMS. PACKED WITH EXAMPLES DRAWN FROM YEARS OF DESIGN AND FIELD EXPERIENCE, THIS REFERENCE FEATURES MANY CHARTS, TABLES, EQUATIONS, DIAGRAMS, AND PHOTOGRAPHS TO ILLUSTRATE THE BASIC APPLICATIONS INCLUDING PUMP HYDRAULICS, CENTRIFUGAL AND RECIPROCATING COMPRESSOR APPLICATIONS, COMPRESSOR PERFORMANCE MAPS, PUMP PERFORMANCE CURVES, PUMP AND COMPRESSOR TESTING AND INSTALLATION, AND MANY MORE CRITICAL TOPICS. PACKED WITH PRACTICAL SOLUTIONS SURFACE PRODUCTION OPERATIONS: PUMPS AND COMPRESSORS DELIVERS AN ESSENTIAL DESIGN AND SPECIFICATION REFERENCE FOR TODAY'S ENGINEERS. COVERS APPLICATION AND PERFORMANCE CONSIDERATIONS FOR ALL TYPES OF PUMPS AND COMPRESSORS DELIVERS HANDS-ON MANUAL FOR APPLYING MECHANICAL AND PHYSICAL PRINCIPLES TO SELECT AND DESIGN PUMP AND COMPRESSOR SYSTEMS, SUPPORTED BY MANY TABLES AND DIAGRAMS GIVES EXPERT ADVICE ON HOW TO APPLY DESIGN CODES AND STANDARDS SUCH AS API 610, API 674, ANSI B78.1, API 617, API 11P, API RP 14C AND THE HYDRAULIC INSTITUTE
PRODUCTION AND OPERATIONS ANALYSIS - STEVEN NAHMIA 2015

PRODUCTION AND OPERATIONS ANALYSIS - SUSMITA BANDYOPADHYAY 2019-12-18

THE AIM OF THIS BOOK IS TO COVER VARIOUS ASPECTS OF THE PRODUCTION AND OPERATIONS ANALYSIS. APART FROM THE INTRODUCTION TO BASIC UNDERSTANDING OF EACH TOPIC, THE BOOK WILL ALSO PROVIDE INSIGHTS TO VARIOUS CONVENTIONAL TECHNIQUES AS WELL AS, VARIOUS OTHER MATHEMATICAL AND NATURE-BASED TECHNIQUES EXTRACTED FROM THE EXISTING LITERATURE. CONCEPTS LIKE SMART FACTORIES, INTELLIGENT MANUFACTURING, AND VARIOUS TECHNIQUES OF MANUFACTURING WILL ALSO BE INCLUDED. VARIOUS TYPES OF NUMERICAL EXAMPLES WILL ALSO BE PRESENTED IN EACH CHAPTER AND THE DESCRIPTIONS WILL BE DONE IN LUCID STYLE WITH FIGURES, POINT-WISE DESCRIPTIONS, TABLES, PICTURES TO FACILITATE EASY UNDERSTANDING OF THE SUBJECT.

OPERATIONS MANAGEMENT, 12/E - HEIZER 1999

THE BOOK PRESENTS A BROAD INTRODUCTION TO THE FIELD OF OPERATIONS IN A REALISTIC AND PRACTICAL MANNER, WHILE OFFERING THE LARGEST AND MOST DIVERSE COLLECTION OF ISSUES ON THE MARKET. THIS EDITION EMPLOYS A STRATEGIC FRAMEWORK THAT IDENTIFIES AND ILLUSTRATES FACILITIES, INVENTORY, TRANSPORTATION AND INFORMATION AS THE KEY FACTORS OF OPERATIONS MANAGEMENT—TO HELP READERS BETTER UNDERSTAND CONCEPTS IMPORTANT TO TODAY’S OPERATIONS MANAGEMENT PROFESSIONALS. STUDENTS AND PRACTITIONERS WILL BE ABLE TO RELATE THE OPERATIONS MANAGEMENT THEORIES DISCUSSED IN THE BOOK TO THEIR ACTUAL PRACTICE IN THE INDIAN COMPANIES.

OPERATIONS MANAGEMENT FLEXIBLE VERSION - JAY HEIZER 2011-11-21

THIS IS THE eBook OF THE PRINTED BOOK AND MAY NOT INCLUDE ANY MEDIA, WEBSITE ACCESS CODES, OR PRINT SUPPLEMENTS THAT MAY COME PACKAGED WITH THE BOUND BOOK. A BROAD, PRACTICAL INTRODUCTION TO OPERATIONS, REINFORCED WITH AN EXTENSIVE COLLECTION OF PRACTICE PROBLEMS. OPERATIONS MANAGEMENT PRESENTS A BROAD INTRODUCTION TO THE FIELD OF OPERATIONS IN A REALISTIC AND PRACTICAL MANNER, WHILE OFFERING THE LARGEST AND MOST DIVERSE COLLECTION OF PROBLEMS ON THE MARKET. THE PROBLEMS FOUND IN THIS TEXT ALSO CONTAIN AMPLE SUPPORT—FOUND IN THE BOOK’S SOLVED-PROBLEMS, WORKED EXAMPLES, AND MYOMLAB, PEARSON’S NEW ONLINE HOMEWORK AND TUTORIAL SYSTEM. THIS EDITION HAS ALSO BEEN THOROUGHLY UPDATED TO REFLECT OPERATIONS MANAGEMENT TODAY—AND NOW FEATURES MYOMLAB, PEARSON’S ONLINE HOMEWORK AND TUTORIAL SYSTEM.

SITE RELIABILITY ENGINEERING - NIALL RICHARD MURPHY 2016-03-23

THE OVERWHELMING MAJORITY OF A SOFTWARE SYSTEM’S LIFESPAN IS SPENT IN USE, NOT IN DESIGN OR IMPLEMENTATION. SO, WHY DOES CONVENTIONAL WISDOM INSIST THAT SOFTWARE ENGINEERS FOCUS PRIMARILY ON THE DESIGN AND DEVELOPMENT OF LARGE-SCALE COMPUTING SYSTEMS? IN THIS COLLECTION OF ESSAYS AND ARTICLES, KEY MEMBERS OF GOOGLE’S SITE RELIABILITY TEAM EXPLAIN HOW AND WHY THEIR COMMITMENT TO THE ENTIRE LIFECYCLE HAS ENABLED THE COMPANY TO SUCCESSFULLY BUILD, DEPLOY, MONITOR, AND MAINTAIN SOME OF THE LARGEST SOFTWARE SYSTEMS IN THE WORLD. YOU’LL LEARN THE PRINCIPLES AND PRACTICES THAT ENABLE GOOGLE ENGINEERS TO MAKE SYSTEMS MORE

SCALABLE, RELIABLE, AND EFFICIENT—LESSONS DIRECTLY APPLICABLE TO YOUR ORGANIZATION. THIS BOOK IS DIVIDED INTO FOUR SECTIONS: INTRODUCTION—LEARN WHAT SITE RELIABILITY ENGINEERING IS AND WHY IT DIFFERS FROM CONVENTIONAL IT INDUSTRY PRACTICES PRINCIPLES—EXAMINE THE PATTERNS, BEHAVIORS, AND AREAS OF CONCERN THAT INFLUENCE THE WORK OF A SITE RELIABILITY ENGINEER (SRE) PRACTICES—UNDERSTAND THE THEORY AND PRACTICE OF AN SRE’S DAY-TO-DAY WORK: BUILDING AND OPERATING LARGE DISTRIBUTED COMPUTING SYSTEMS MANAGEMENT—EXPLORE GOOGLE’S BEST PRACTICES FOR TRAINING, COMMUNICATION, AND MEETINGS THAT YOUR ORGANIZATION CAN USE

OPERATIONS MANAGEMENT - JAY H. HEIZER 2004

A TEXT/CD-ROM INTRODUCTION TO OPERATIONS MANAGEMENT, ORGANIZED AROUND 10 CRITICAL DECISIONS IN PRACTICE. PART I INTRODUCES CONCEPTS, AND PART II DESCRIBES DESIGNING OPERATIONS. PART III DESCRIBES MANAGING OPERATIONS IN TERMS OF PERFORMANCE, AND PART IV OUTLINES ANALYTICAL TECHNIQUES FOR DECISION MAKING. PEDAGOGICAL FEATURES INCLUDE MARGIN NOTES, WORKED EXAMPLES, CRITICAL THINKING EXERCISES, AND DATABASE APPLICATION PROBLEMS. ALSO INCLUDES 46 CASE STUDIES, GLOBAL COMPANY PROFILES, BOXED READINGS FROM NEWSPAPERS, AND VIDEO CASES. THE CD-ROM CONTAINS SLIDES OF MAIN POINTS, QUIZES, AND SIMULATION SOFTWARE.

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THE OWNER’S ROLE IN PROJECT RISK MANAGEMENT - NATIONAL RESEARCH COUNCIL 2005-03-25

EFFECTIVE RISK MANAGEMENT IS ESSENTIAL FOR THE SUCCESS OF LARGE PROJECTS BUILT AND OPERATED BY THE DEPARTMENT OF ENERGY (DOE), PARTICULARLY FOR THE ONE-OF-A-KIND PROJECTS THAT CHARACTERIZE MUCH OF ITS MISSION. TO ENHANCE DOE’S RISK MANAGEMENT EFFORTS, THE DEPARTMENT ASKED THE NRC TO PREPARE A SUMMARY OF THE MOST EFFECTIVE PRACTICES USED BY LEADING OWNER ORGANIZATIONS. THE STUDY’S PRIMARY OBJECTIVE WAS TO PROVIDE DOE PROJECT MANAGERS WITH A BASIC UNDERSTANDING OF BOTH THE PROJECT OWNER’S RISK MANAGEMENT ROLE AND EFFECTIVE OVERSIGHT OF THOSE RISK MANAGEMENT ACTIVITIES DELEGATED TO CONTRACTORS.

TOTAL OPERATIONS SOLUTIONS - RON BASU 2005

DEMONSTRATING HOW TO ADD VALUE TO AN ORGANIZATION THROUGH THE EFFICIENT USE OF RESOURCES TO PROVIDE IMPROVED CUSTOMER SATISFACTION, THIS TEXT SHOWS HOW A HOLISTIC APPROACH CAN BE USED TO ACHIEVE OPERATIONAL EXCELLENCE IN MANUFACTURING, SERVICE AND PUBLIC SECTORS.

SOLUTIONS MANUAL - NILE R. LEACH 1996

PRODUCTION AND OPERATIONS ANALYSIS - STEVEN NAHMIA 1993

THIS TEXT PROVIDES A SURVEY OF THE ANALYTICAL METHODS USED TO SUPPORT THE FUNCTIONS OF PRODUCTION AND OPERATIONS MANAGEMENT. THIS LATEST EDITION CONTINUES TO BRING THE MOST THOROUGH COVERAGE OF CUTTING-EDGE QUANTITATIVE MODELS USED IN OPERATIONS, WHILE PRESENTING IT IN A CLEAN, EASY TO UNDERSTAND

FASHION. THERE ARE MANY NEW PROBLEMS BOTH SOLVED AND UNSOLVED FOR STUDENTS TO COMPREHEND THE QUANTITATIVE MATERIAL OF THE BOOK. FURTHERMORE, WE HAVE ENHANCED THE TECHNOLOGY PACKAGE OF THIS BOOK TO HAVE MORE APPLIED LEARNING OF CONCEPTS AND SKILLS FOR STUDENTS. LASTLY, TECHNOLOGY, SUCH AS THE INTERNET, ECOMMERCE, ETC HAS BEEN ADDED TO REFLECT THE CHANGES IN HOW BUSINESS IS CONDUCTED. THIS TEXT REFLECTS STEVE NAHMIA'S EXTENSIVE TEACHING BACKGROUND AND EXPERIENCE IN BOTH BUSINESS AND ENGINEERING SCHOOLS. .

ECONOMETRIC ANALYSIS OF CROSS SECTION AND PANEL DATA, SECOND EDITION - JEFFREY M. WOOLDRIDGE 2010-10-01

THE SECOND EDITION OF A COMPREHENSIVE STATE-OF-THE-ART GRADUATE LEVEL TEXT ON MICROECONOMETRIC METHODS, SUBSTANTIALLY REVISED AND UPDATED. THE SECOND EDITION OF THIS ACCLAIMED GRADUATE TEXT PROVIDES A UNIFIED TREATMENT OF TWO METHODS USED IN CONTEMPORARY ECONOMETRIC RESEARCH, CROSS SECTION AND DATA PANEL METHODS. BY FOCUSING ON ASSUMPTIONS THAT CAN BE GIVEN BEHAVIORAL CONTENT, THE BOOK MAINTAINS AN APPROPRIATE LEVEL OF RIGOR WHILE EMPHASIZING INTUITIVE THINKING. THE ANALYSIS COVERS BOTH LINEAR AND NONLINEAR MODELS, INCLUDING MODELS WITH DYNAMICS AND/OR INDIVIDUAL HETEROGENEITY. IN ADDITION TO GENERAL ESTIMATION FRAMEWORKS (PARTICULAR METHODS OF MOMENTS AND MAXIMUM LIKELIHOOD), SPECIFIC LINEAR AND NONLINEAR METHODS ARE COVERED IN DETAIL, INCLUDING PROBIT AND LOGIT MODELS AND THEIR MULTIVARIATE, TOBIT MODELS, MODELS FOR COUNT DATA, CENSORED AND MISSING DATA SCHEMES, CAUSAL (OR TREATMENT) EFFECTS, AND DURATION ANALYSIS. ECONOMETRIC ANALYSIS OF CROSS SECTION AND PANEL DATA WAS THE FIRST GRADUATE ECONOMETRICS TEXT TO FOCUS ON MICROECONOMIC DATA STRUCTURES, ALLOWING ASSUMPTIONS TO BE SEPARATED INTO POPULATION AND SAMPLING ASSUMPTIONS. THIS SECOND EDITION HAS BEEN SUBSTANTIALLY UPDATED AND REVISED. IMPROVEMENTS INCLUDE A BROADER CLASS OF MODELS FOR MISSING DATA PROBLEMS; MORE DETAILED TREATMENT OF CLUSTER PROBLEMS, AN IMPORTANT TOPIC FOR EMPIRICAL RESEARCHERS; EXPANDED DISCUSSION OF "GENERALIZED INSTRUMENTAL VARIABLES" (GIV) ESTIMATION; NEW COVERAGE (BASED ON THE AUTHOR'S OWN RECENT RESEARCH) OF INVERSE PROBABILITY WEIGHTING; A MORE COMPLETE FRAMEWORK FOR ESTIMATING TREATMENT EFFECTS WITH PANEL DATA, AND A FIRMLY ESTABLISHED LINK BETWEEN ECONOMETRIC APPROACHES TO NONLINEAR PANEL DATA AND THE "GENERALIZED ESTIMATING EQUATION" LITERATURE POPULAR IN STATISTICS AND OTHER FIELDS. NEW ATTENTION IS GIVEN TO EXPLAINING WHEN PARTICULAR ECONOMETRIC METHODS CAN BE APPLIED; THE GOAL IS NOT ONLY TO TELL READERS WHAT DOES WORK, BUT WHY CERTAIN "OBVIOUS" PROCEDURES DO NOT. THE NUMEROUS INCLUDED EXERCISES, BOTH THEORETICAL AND COMPUTER-BASED, ALLOW THE READER TO EXTEND METHODS COVERED IN THE TEXT AND DISCOVER NEW INSIGHTS.

ANALYSIS AND DESIGN OF DISCRETE PART PRODUCTION LINES - CHRISOLEON T. PAPADOPOULOS 2009-05-30

THIS BOOK PROVIDES A COMPLETE OVERVIEW OF PRODUCTION SYSTEMS AND DESCRIBES THE

BEST APPROACHES TO ANALYZE THEIR PERFORMANCE. WRITTEN BY EXPERTS IN THE FIELD, THIS WORK ALSO PRESENTS NUMEROUS TECHNIQUES THAT CAN BE USED TO DESCRIBE, MODEL, AND OPTIMIZE THE PERFORMANCE OF VARIOUS TYPES OF PRODUCTION LINES. THE BOOK IS INTENDED FOR RESEARCHERS, PRODUCTION MANAGERS, AND GRADUATE STUDENTS IN INDUSTRIAL, MECHANICAL, AND SYSTEMS ENGINEERING.

TOTAL OPERATIONS SOLUTIONS - RON BASU 2006-08-11

TOTAL OPERATIONS SOLUTIONS BUILDS ON CONCEPTS THAT WERE INTRODUCED IN "TOTAL MANUFACTURING SOLUTIONS", BASU AND WRIGHT (1997). IT DEMONSTRATES HOW THIS HOLISTIC APPROACH OF OPERATIONAL EXCELLENCE DRIVEN BY A SELF-ASSESSMENT METHODOLOGY CAN BE APPLIED EQUALLY TO MANUFACTURING, SERVICE OR PUBLIC SECTORS. THE TEXT COVERS AN IMPLEMENTATION PROGRAMME TO DEMONSTRATE HOW TO PUT THE METHODOLOGY INTO PRACTICE. A DIFFERENTIATING FEATURE OF THE APPROACH WILL BE A CRITICAL UPDATE, IMPACT ANALYSIS AND COMPARISON WITH NEW DEVELOPMENTS SUCH AS E-BUSINESS, OUTSOURCING, SIX SIGMA, EFQM AND ISO 9000:2000. IT IS A STEP-BY-STEP GUIDE FOR THE APPLICATION OF THE APPROPRIATE TOOLS TO THE IMPROVEMENT PROCESS. TOTAL OPERATIONS SOLUTIONS COULD BE USED AS AN ESSENTIAL HANDBOOK FOR ALL EMPLOYEES IN A SIX SIGMA PROGRAMME AND PROVIDE A BETTER UNDERSTANDING OF BASIC TOOLS AND TECHNIQUES TO HELP THEM TO SUPPORT A QUALITY IMPROVEMENT INITIATIVE AND SUSTAIN A STRONG COMPETITIVE POSITION.

MAKE IT! THE ENGINEERING MANUFACTURING SOLUTION - JOHN GARSIDE 1999-08-17

MANUFACTURING OPERATIONS ARE THE REAL WEALTH CREATORS WITHIN A BUSINESS, ACCOUNTING FOR THE MAJORITY OF MANAGEMENT AND FINANCIAL ASSETS NEEDED TO SUSTAIN THE COMPANY. MAKE IT! ENCAPSULATES THE AUTHOR'S MANY YEARS OF EXPERIENCE GAINED DESIGNING MANUFACTURING SYSTEMS AND SUPPLY-CHAINS IN FACTORIES ACROSS THE WORLD. IT PROVIDES A PROVEN, LOGICAL SEQUENCE OF EVENTS NEEDED TO DESIGN EFFECTIVE MODULAR FACTORIES CAPABLE OF COMPETING WITH THE WORLD'S BEST. IN THEIR 1999 'BEST-MANAGED' COMPANIES AWARDS, 'AVIATION WEEK AND SPACE TECHNOLOGY' (VOL. 150, NO. 22) QUOTED THE AUTHOR'S FORMER COMPANY, LUCAS AEROSPACE, AS ACHIEVING 'MOST IMPROVED MAJOR AEROSPACE COMPANY 1994 - 1998' STATUS, RANKING IT SECOND IN COMPETITIVENESS, ASSESSED BY AN AMALGAMATION OF ASSET UTILISATION, PRODUCTIVITY AND FINANCIAL STABILITY. THIS BOOK HAS BEEN WRITTEN FOR MANAGERS CHARGED WITH THE RESPONSIBILITY FOR IMPROVING BUSINESS PROFITABILITY AND FOR ENGINEERS FACING THE CHALLENGE OF INTRODUCING MORE COST EFFECTIVE MANUFACTURING PROCESSES. MANY MANUFACTURING BUSINESSES HAVE FAILED TO INVEST ADEQUATE RESOURCES IN DESIGNING FACTORY OPERATIONS, MAINLY DUE TO THE LACK OF EXPERTISE AND DETAILED KNOWLEDGE NEEDED TO UNDERTAKE THIS DEMANDING TASK. JOHN GARSIDE IS A PRINCIPAL FELLOW AT WARWICK INTERNATIONAL MANUFACTURING GROUP, THE UNIVERSITY OF WARWICK. THIS FOLLOWS AN EXTENSIVE INDUSTRIAL CAREER IN HIGHLY COMPETITIVE FIRST TIER SYSTEM AND COMPONENT MANUFACTURING BUSINESSES, WHO SUPPLIED MANY OF THE WORLD'S LEADING AEROSPACE, AUTOMOTIVE AND INDUSTRIAL

EQUIPMENT MAKERS. WRITTEN IN A CONCISE STYLE GIVING READY ACCESS TO INFORMATION PROVIDES DETAILED CHECKLISTS ALLOWING MANAGERS TO MAKE INFORMED JUDGEMENTS CONCERNING THE CRITICAL RESOURCES NEEDED TO MEET AND EXCEED CUSTOMER EXPECTATIONS INFORMS YOU HOW TO 'MAKE IT!' IMPARTING PRACTICAL KNOWLEDGE ON HOW TO CREATE WORLD CLASS FACTORIES

SUPPLY CHAIN PLANNING AND ANALYTICS - GERALD FEIGIN 2011-08-31

EVERY COMPANY MUST CONTINUALLY WRESTLE WITH THE PROBLEM OF DECIDING THE RIGHT QUANTITY AND MIX OF PRODUCTS OR SERVICES THAT IT SHOULD PRODUCE AS WELL AS WHEN AND WHERE TO PRODUCE THEM. THE PROBLEM IS CHALLENGING BECAUSE THE DECISION MUST BE MADE WITH UNCERTAIN AND CONFLICTING INFORMATION ABOUT FUTURE DEMAND, AVAILABLE PRODUCTION CAPACITY, AND SOURCES OF SUPPLY. THE DECISION IS IN FACT A HIGHLY COMPLEX BALANCING ACT, INVOLVING TRADEOFFS ALONG MANY DIMENSIONS - FOR EXAMPLE, INVENTORY TARGETS VS. CUSTOMER SERVICE LEVELS, OLDER PRODUCTS VS. NEWER ONES, DIRECT CUSTOMERS VS. CHANNEL PARTNERS - AND REQUIRING THE COMPROMISE OF CONSTITUENTS - SALES, MARKETING, OPERATIONS, PROCUREMENT, PRODUCT DEVELOPMENT, FINANCE, AS WELL AS SUPPLIERS AND CUSTOMERS - WITH VARIED OBJECTIVES. THE ABILITY OF A COMPANY TO NIMBLY NAVIGATE THIS DECISION PROCESS WITHOUT GIVING TOO MUCH INFLUENCE TO ANY OF THE PARTIES INVOLVED LARGELY DETERMINES HOW WELL THE COMPANY CAN RESPOND TO CHANGING MARKET CONDITIONS AND ULTIMATELY WHETHER THE COMPANY WILL CONTINUE TO THRIVE. THIS BOOK FOCUSES ON THE COMPLEX CHALLENGES OF SUPPLY CHAIN PLANNING - THE SET OF BUSINESS PROCESSES THAT COMPANIES USE FOR PLANNING TO MEET FUTURE DEMAND. SUPPLY CHAIN PLANNING COMPRISES A VARIETY OF PLANNING PROCESSES WITHIN AN ORGANIZATION: DEMAND PLANNING, SALES & OPERATIONS PLANNING, INVENTORY PLANNING, PROMOTION PLANNING, SUPPLY PLANNING, PRODUCTION PLANNING, DISTRIBUTION PLANNING, AND CAPACITY PLANNING. OF COURSE, NOT ALL COMPANIES ENGAGE IN ALL OF THESE PLANNING ACTIVITIES AND THEY MAY REFER TO THESE ACTIVITIES BY OTHER NAMES BUT THEY ALL STRUGGLE WITH THE ON-GOING EFFORT OF MATCHING DEMAND WITH SUPPLY. MANY TEXTBOOKS ADDRESS SUPPLY CHAIN PLANNING PROBLEMS AND PRESENT MATHEMATICAL TOOLS AND METHODS FOR SOLVING CERTAIN CLASSES OF PROBLEMS. THIS BOOK IS INTENDED TO COMPLEMENT THESE TEXTS BY FOCUSING NOT ON THE MATHEMATICAL MODELS BUT ON THE PROBLEMS THAT ARISE IN PRACTICE THAT EITHER THESE MODELS DO NOT ADEQUATELY ADDRESS OR THAT MAKE APPLYING THE MODELS DIFFICULT OR IMPOSSIBLE. THE BOOK IS NOT INTENDED TO PROVIDE PAT SOLUTIONS TO THESE PROBLEMS, BUT MORE TO HIGHLIGHT THE COMPLEXITIES AND SUBTLETIES INVOLVED AND DESCRIBE WAYS TO OVERCOME PRACTICAL ISSUES THAT HAVE WORKED FOR SOME COMPANIES.

SOFTWARE QUALITY ASSURANCE - DANIEL GALIN 2004

THIS BOOK COMPREHENSIVELY COVERS THE ISO 9000-3 REQUIREMENTS. IT ALSO PROVIDES A SUBSTANTIAL PORTION OF THE BODY OF KNOWLEDGE REQUIRED FOR THE CSQE (CERTIFIED SOFTWARE QUALITY ENGINEER) AS OUTLINED BY THE ASQ (AMERICAN QUALITY ENGINEER) AS OUTLINED BY THE ASQ (AMERICAN SOCIETY FOR QUALITY).

PRODUCTION AND OPERATIONS ANALYSIS - STEVEN NAHMIA 2009

PRODUCTION AND OPERATIONS ANALYSIS, 6/E BY STEVEN NAHMIA PROVIDES A SURVEY OF THE ANALYTICAL METHODS USED TO SUPPORT THE FUNCTIONS OF PRODUCTION AND OPERATIONS MANAGEMENT. THIS LATEST EDITION MAINTAINS THE FOCUS ON CONTINUAL PROCESS IMPROVEMENT WHILE ENHANCING THE TECHNICAL CONTENT OF THE BOOK. BOTH ANALYTICAL METHODS CENTERED ON FACTORY AND SERVICE PROCESSES, AS WELL AS PROCESS ISSUES ACROSS THE SUPPLY CHAIN, ARE INCLUDED. AS ALWAYS, THE TEXT PRESENTS THE MOST CUTTING-EDGE QUANTITATIVE MODELS USED IN OPERATIONS IN A CLEAR, ACCESSIBLE MANNER. WHILE THE FAMILIAR STRUCTURE AND ORGANIZATION OF THE TEXT REMAINS THE SAME AS PREVIOUS EDITIONS, THE CURRENT EDITION INCLUDES SEVERAL NEW TOPICS AIMED AT ENHANCING THE TECHNICAL CONTENT OF THE BOOK.

ENTERPRISE RESOURCE PLANNING AND SUPPLY CHAIN MANAGEMENT - KARL E. KURBEL 2013-08-23

THIS BOOK IS ABOUT RUNNING MODERN INDUSTRIAL ENTERPRISES WITH THE HELP OF INFORMATION SYSTEMS. ENTERPRISE RESOURCE PLANNING (ERP) IS THE CORE OF BUSINESS INFORMATION PROCESSING. AN ERP SYSTEM IS THE BACKBONE OF MOST COMPANIES' INFORMATION SYSTEMS LANDSCAPE. ALL MAJOR BUSINESS PROCESSES ARE HANDLED WITH THE HELP OF THIS SYSTEM. SUPPLY CHAIN MANAGEMENT (SCM) LOOKS BEYOND THE INDIVIDUAL COMPANY, TAKING INTO ACCOUNT THAT ENTERPRISES ARE INCREASINGLY CONCENTRATING ON THEIR CORE COMPETENCIES, LEAVING OTHER ACTIVITIES TO SUPPLIERS. WITH THE GROWING DEPENDENCY ON THE PARTNERS, EFFECTIVE SUPPLY CHAINS HAVE BECOME AS IMPORTANT FOR A COMPANY'S SUCCESS AS EFFICIENT IN-HOUSE PROCESSES. THIS BOOK COVERS TYPICAL BUSINESS PROCESSES AND SHOWS HOW THESE PROCESSES ARE IMPLEMENTED. EXAMPLES ARE PRESENTED USING THE LEADING SYSTEMS ON THE MARKET - SAP ERP AND SAP SCM. IN THIS WAY, THE READER CAN UNDERSTAND HOW BUSINESS PROCESSES ARE ACTUALLY CARRIED OUT "IN THE REAL WORLD".

ETHANOL PRODUCTION FROM CORN DRY MILLING - COST ANALYSIS - ETHANOL E41A - INTRATEC 2016-05-01

THIS REPORT PRESENTS A COST ANALYSIS OF HYDROUS ETHANOL PRODUCTION FROM CORN. THE PROCESS EXAMINED IS A TYPICAL DRY MILLING PROCESS. IN THIS PROCESS, DISTILLER'S DRIED GRAIN WITH SOLUBLES (DDGS) IS GENERATED AS BY-PRODUCT. THIS REPORT EXAMINES ONE-TIME COSTS ASSOCIATED WITH THE CONSTRUCTION OF A UNITED STATES-BASED PLANT AND THE CONTINUING COSTS ASSOCIATED WITH THE DAILY OPERATION OF SUCH A PLANT. MORE SPECIFICALLY, IT DISCUSSES: * CAPITAL INVESTMENT, BROKEN DOWN BY: - TOTAL FIXED CAPITAL REQUIRED, DIVIDED IN PRODUCTION UNIT (ISBL); INFRASTRUCTURE (OSBL) AND CONTINGENCY - ALTERNATIVE PERSPECTIVE ON THE TOTAL FIXED CAPITAL, DIVIDED IN DIRECT COSTS, INDIRECT COSTS AND CONTINGENCY - WORKING CAPITAL AND COSTS INCURRED DURING INDUSTRIAL PLANT COMMISSIONING AND START-UP * PRODUCTION COST, BROKEN DOWN BY: - MANUFACTURING VARIABLE COSTS (RAW MATERIALS, UTILITIES) - MANUFACTURING FIXED COSTS (MAINTENANCE COSTS, OPERATING

CHARGES, PLANT OVERHEAD, LOCAL TAXES AND INSURANCE) - DEPRECIATION AND CORPORATE OVERHEAD COSTS * RAW MATERIALS CONSUMPTION, PRODUCTS GENERATION AND LABOR REQUIREMENTS * PROCESS BLOCK FLOW DIAGRAM AND DESCRIPTION OF INDUSTRIAL SITE INSTALLATIONS (PRODUCTION UNIT AND INFRASTRUCTURE) THIS REPORT WAS DEVELOPED BASED ESSENTIALLY ON THE FOLLOWING REFERENCE(S): "ETHANOL", ULLMANN'S ENCYCLOPEDIA OF INDUSTRIAL CHEMISTRY, 7TH EDITION KEYWORDS: ETHYL ALCOHOL, BIOETHANOL, BIOMASS

THE ROUTLEDGE COMPANION TO PRODUCTION AND OPERATIONS MANAGEMENT - MARTIN K. STARR 2017-03-27

THIS REMARKABLE VOLUME HIGHLIGHTS THE IMPORTANCE OF PRODUCTION AND OPERATIONS MANAGEMENT (POM) AS A FIELD OF STUDY AND RESEARCH CONTRIBUTING TO SUBSTANTIAL BUSINESS AND SOCIAL GROWTH. THE EDITORS EMPHASIZE HOW POM WORKS WITH A RANGE OF SYSTEMS—AGRICULTURE, DISASTER MANAGEMENT, E-COMMERCE, HEALTHCARE, HOSPITALITY, MILITARY SYSTEMS, NOT-FOR-PROFIT, RETAIL, SPORTS, SUSTAINABILITY, TELECOMMUNICATIONS, AND TRANSPORT—AND HOW IT CONTRIBUTES TO THE GROWTH OF EACH. MARTIN K. STARR AND SUSHIL K. GUPTA GATHER AN INTERNATIONAL TEAM OF EXPERTS TO PROVIDE RESEARCHERS AND STUDENTS WITH A PANORAMIC VISION OF THE FIELD. DIVIDED INTO EIGHT PARTS, THE BOOK PRESENTS THE HISTORY OF POM, AND ESTABLISHES THE FOUNDATION UPON WHICH POM HAS BEEN BUILT WHILE ALSO REVISITING AND REVITALIZING TOPICS THAT HAVE LONG BEEN ESSENTIAL. IT EXAMINES THE SIGNIFICANCE OF PROCESSES AND PROJECTS TO THE FUNDAMENTAL GROWTH OF THE POM FIELD. CRITICAL EMERGING THEMES AND NEW RESEARCH ARE EXAMINED WITH OPEN MINDS AND THIS IS FOLLOWED BY OPPORTUNITIES TO INTERFACE WITH OTHER BUSINESS FUNCTIONS. FINALLY, THE NEXT ERA IS DISCUSSED IN WAYS THAT COMBINE PRACTICAL SKILL WITH PHILOSOPHY IN ITS ANALYSIS OF POM, INCLUDING TRADITIONAL AND NONTRADITIONAL APPLICATIONS, BEFORE CONCLUDING WITH THE EDITORS' THOUGHTS ON THE FUTURE OF THE DISCIPLINE. STUDENTS OF POM WILL FIND THIS A COMPREHENSIVE, DEFINITIVE RESOURCE ON THE STATE OF THE DISCIPLINE AND ITS FUTURE DIRECTIONS.

OPERATIONS MANAGEMENT - HEIZER 2008

OPERATIONS MANAGEMENT PROVIDES A BROAD INTRODUCTION TO THE FIELD OF OPERATIONS IN A REALISTIC, PRACTICAL MANNER USING THE BEST OF AVAILABLE RESEARCH AND PRACTICE. IT EXPLAINS THE THEORY AND PRACTICE OF OPERATIONS MANAGEMENT WITH THE AID OF EXAMPLES AND VIDEO CASE STUDIES COVERING A WIDE RANGE OF PRODUCTS, SERVICES, AND SECTORS. THE SPECIFIC NEEDS OF INDIAN STUDENTS AND MANAGERS ARE ADDRESSED BY PROVIDING VALUABLE INSIGHTS INTO OPERATIONS MANAGEMENT ISSUES AND PRACTICES ACROSS VARIOUS SECTORS IN INDIA. STUDENTS ARE ENCOURAGED TO APPLY THEIR LEARNING TO REAL-LIFE CHALLENGES THROUGH A MULTITUDE OF PROBLEMS IN THE TEXT AND INTEGRATED CASE STUDIES ON VIDEO.

INDUSTRIAL CHEMICAL PROCESS ANALYSIS AND DESIGN - MARIANO MARTÍN MARTÍN 2016-07-02

INDUSTRIAL CHEMICAL PROCESS ANALYSIS AND DESIGN USES CHEMICAL ENGINEERING PRINCIPLES TO EXPLAIN THE TRANSFORMATION OF BASIC RAW MATERIALS INTO MAJOR CHEMICAL PRODUCTS. THE BOOK DISCUSSES TRADITIONAL PROCESSES TO CREATE PRODUCTS LIKE NITRIC ACID, SULPHURIC ACID, AMMONIA, AND METHANOL, AS WELL AS MORE NOVEL PRODUCTS LIKE BIOETHANOL AND BIODIESEL. HISTORICAL PERSPECTIVES SHOW HOW CURRENT CHEMICAL PROCESSES HAVE DEVELOPED OVER YEARS OR EVEN DECADES TO IMPROVE THEIR YIELDS, FROM THE DISCOVERY OF THE CHEMICAL REACTION OR PHYSICO-CHEMICAL PRINCIPLE TO THE INDUSTRIAL PROCESS NEEDED TO YIELD COMMERCIAL QUANTITIES. STARTING WITH AN INTRODUCTION TO PROCESS DESIGN, OPTIMIZATION, AND SAFETY, MARTIN THEN PROVIDES STAND-ALONE CHAPTERS—IN A CASE STUDY FASHION—FOR COMMERCIALY IMPORTANT CHEMICAL PRODUCTION PROCESSES. COMPUTATIONAL SOFTWARE TOOLS LIKE MATLAB®, EXCEL, AND CHEMCAD ARE USED THROUGHOUT TO AID PROCESS ANALYSIS. INTEGRATES PRINCIPLES OF CHEMICAL ENGINEERING, UNIT OPERATIONS, AND CHEMICAL REACTOR ENGINEERING TO UNDERSTAND PROCESS SYNTHESIS AND ANALYSIS COMBINES TRADITIONAL COMPUTATION AND MODERN SOFTWARE TOOLS TO COMPARE DIFFERENT SOLUTIONS FOR THE SAME PROBLEM INCLUDES HISTORICAL PERSPECTIVES AND TRACES THE IMPROVING EFFICIENCIES OF COMMERCIALY IMPORTANT CHEMICAL PRODUCTION PROCESSES FEATURES WORKED EXAMPLES AND END-OF-CHAPTER PROBLEMS WITH SOLUTIONS TO SHOW THE APPLICATION OF CONCEPTS DISCUSSED IN THE TEXT

OCCUPATIONAL OUTLOOK HANDBOOK - UNITED STATES. BUREAU OF LABOR STATISTICS 1976

INTRODUCTION TO PROBABILITY - JOSEPH K. BLITZSTEIN 2014-07-24

DEVELOPED FROM CELEBRATED HARVARD STATISTICS LECTURES, INTRODUCTION TO PROBABILITY PROVIDES ESSENTIAL LANGUAGE AND TOOLS FOR UNDERSTANDING STATISTICS, RANDOMNESS, AND UNCERTAINTY. THE BOOK EXPLORES A WIDE VARIETY OF APPLICATIONS AND EXAMPLES, RANGING FROM COINCIDENCES AND PARADOXES TO GOOGLE PAGERANK AND MARKOV CHAIN MONTE CARLO (MCMC). ADDITIONAL

INDUSTRIAL ASSEMBLY - SHIMON Y. NOF 2012-12-06

INDUSTRIAL ASSEMBLY IS A RAPIDLY CHANGING FIELD WITH SIGNIFICANT IMPORTANCE IN PRODUCTION. THIS BOOK IS THE FIRST OF ITS KIND TO COMBINE TECHNOLOGY, DESIGN, METHODS, AND PLANNING AND CONTROL MODELS OF ASSEMBLY OPERATIONS AND SYSTEMS. WITH THE INCREASING IMPORTANCE OF ASSEMBLY IN INDUSTRY AND OF SIMULTANEOUS ENGINEERING APPROACHES, THIS TIMELY PUBLICATION PROVIDES: COMPREHENSIVE COVERAGE OF TECHNOLOGICAL, ENGINEERING, AND MANAGEMENT ASPECTS OF THIS FIELD; MULTI-DISCIPLINARY APPROACHES TO RATIONALIZATION OF ASSEMBLY OPERATIONS AND SYSTEMS; EXPLANATION OF QUALITATIVE MODELS, INFORMATION TECHNOLOGIES, AND DESIGN TECHNIQUES, WHICH HAVE BEEN PRACTISED EFFECTIVELY IN INDUSTRIAL ASSEMBLY; AS WELL AS THEORETICAL FOUNDATIONS AND EMERGING TRENDS THAT SHAPE THE FUTURE OF ASSEMBLY.

DESIGN AND ANALYSIS OF LEAN PRODUCTION SYSTEMS - RONALD G. ASKIN 2002

THIS BOOK COVERS THE DESIGN AND IMPROVEMENT OF SINGLE AND MULTISTAGE PRODUCTION SYSTEMS. FOLLOWING THE STANDARD PRODUCTION PLANNING AND SCHEDULING DECISION HIERARCHY, IT DESCRIBES THE INPUTS AND OUTPUTS AT EACH LEVEL OF THE DECISION HIERARCHY AND ONE OR MORE DECISION APPROACHES. THE ASSUMPTIONS LEADING TO EACH APPROACH ARE INCLUDED ALONG WITH THE DETAILS OF THE MODEL AND THE CORRESPONDING SOLUTION. MODERN SYSTEM CONCEPTS AND THE ENGINEERING METHODS FOR CREATING LEAN PRODUCTION SYSTEMS ARE INCLUDED.

GAS WELL TESTING HANDBOOK - AMANAT CHAUDHRY 2003-08-07

"GAS WELL TESTING HANDBOOK DEALS EXECUSIVELY WITH THE THEORY AND PRACTICE OF GAS WELL TESTING, INCLUDING PRESSURE TRANSIENT ANALYSIS TECHNIQUE, ANALYTICAL METHODS REQUIRED TO INTERPRET WELL BEHAVIOR, EVALUATING RESERVOIR QUALITY, RESERVOIR SIMULATION, AND PRODUCTION FORECASTS. A HIGHLY PRACTICAL VOLUME, THIS BOOK IS WRITTEN FOR DRILLING ENGINEERS, WELL LOGGING ENGINEERS, RESERVOIR ENGINEERS, ENGINEERING STUDENTS, GEOLOGISTS, AND GEOPHYSICISTS."--BOOK JACKET

PRODUCTION AND OPERATIONS ANALYTICS - STEVEN NAHMIA 2020-10-01

NAHMIA AND OLSEN SKILLFULLY BLEND COMPREHENSIVE COVERAGE OF TOPICS WITH CAREFUL INTEGRATION OF MATHEMATICS. THE AUTHORS' DECADES OF EXPERIENCE IN THE FIELD CONTRIBUTED TO THE SUCCESS OF PREVIOUS EDITIONS; THE EIGHTH EDITION CONTINUES THE LONG TRADITION OF EXCELLENCE. CLEARLY WRITTEN, REASONABLY PRICED, WITH AN

ABUNDANCE OF EXPERTLY FORMULATED PRACTICE PROBLEMS AND UPDATED EXAMPLES, THIS TEXTBOOK IS ESSENTIAL READING FOR ANALYZING AND IMPROVING ALL FACETS OF OPERATIONS. SOME OF THE MATERIAL IN THE NEWEST EDITION HAS BEEN REORGANIZED. FOR EXAMPLE, THE FIRST CHAPTER INTRODUCES SERVICE STRATEGY, THE PRODUCT/PROCESS MATRIX AND FLEXIBLE MANUFACTURING SYSTEMS, BENCHMARKING, THE PRODUCTIVITY FRONTIER, THE INNOVATION CURVE, AND LEAN PRODUCTION AS A STRATEGY. THE FOCUS IS SLIGHTLY MORE INTERNATIONAL. THE ANALYSIS OF CAPACITY GROWTH PLANNING NOW APPEARS IN THE CHAPTER ON SUPPLY CHAIN ANALYTICS. AGGREGATE PLANNING DETAILS WERE ADDED TO CHAPTER 3, INCLUDING CHASE AND LEVEL STRATEGIES IN AN APPENDIX TO THE CHAPTER. THERE IS AN EXPANDED DISCUSSION ON RISK POOLING IN THE CHAPTER ON SUPPLY CHAIN STRATEGY. THE MECHANICS BEHIND LEAN PRODUCTION ARE INCLUDED IN THE CHAPTER ON PUSH AND PULL PRODUCTION SYSTEMS. THE CHAPTER ON QUALITY AND ASSURANCE DOWNPLAYS SAMPLING IN FAVOR OF DISCUSSIONS OF QUALITY MANAGEMENT, PROCESS CAPABILITY, AND THE WASTE ELIMINATION SIDE OF LEAN. THE SEPARATE CHAPTER ON FACILITIES LAYOUT AND LOCATION WAS ELIMINATED AND THE INFORMATION REDISTRIBUTED THROUGHOUT THE TEXT. THE AUTHORS REINFORCE THE LEARNING PROCESS THROUGH KEY POINTS AT THE BEGINNING OF EACH CHAPTER TO GUIDE THE READER, SNAPSHOTS THAT PROVIDE USEFUL EXAMPLES OF APPLICATIONS TO BUSINESSES, AND HISTORICAL NOTES THAT PROVIDE A CONTEXT FOR THE TOPICS DISCUSSED. PRODUCTION AND OPERATIONS ANALYTICS, 8/E PROVIDES THE TOOLS FOR ADAPTING TO THE DYNAMIC GLOBAL MARKETPLACE.