Index

A
Aalborg Industries A/S (AI) 72
able-to-production (ATP) 174
abstract data type (ADT) 142
Active
   Data Objects (ADO) 116
   Server Pages (ASP) 116
advisory system 250
aggregate relationships (AND) 38
Application
   Program Interface (API) 45, 116
   protocols (APs) 141
   artificial intelligence (AI) 222
   assemble-to-order (ATO) 42, 187, 191
   association rule learning method 109
Automated debugging 226
Axiomatic Design Theory 35

B
Basque industry 34
behavioral view 35
bill-of-material (BOM) 8, 191
build-to-forecast (BTF) 174
build-to-order (BTO) 64, 175
build-to-order supply chain management 64
business objects (BOs) 141
business process reengineering (BPR) 243
business strategy xii

C
CBA-CB algorithm 112
channel parameters (ChPs) 259
co-producer xiii
coefficient of variation (COV) 82
collaborative filtering (CF) 108, 109
Communications of the ACM, 40 120
Comprehensive Framework Encompassing the Main Conditions for Achieving Mass Customization 78
customer-centric production system 163
customer relation management systems (CRM) 199
customer relationship management xiii

Copyright © 2007, Idea Group Inc., distributing in print or electronic forms without written permission of IGI is prohibited.
D

data flow diagrams (DFDs) 243
decision support systems (DSS) 192
decoupling point (DP) 185
demand-driven 164
Design
  Concepts 48
  Theory 34
design
  customization 42
  process 35
distributed constraint satisfaction 224
dynamic constraint satisfaction 224

E

economic Systems Theory 35
economies of
  scale xii
efficient consumer response (ECR) 91
engineer-to-order (ETO) 34, 59, 60, 187
engineering-production-logistics process 34
enterprise
  content management systems (ECM) 199
  resource management (ERP) 190
European level projects (DEKLARE) 53
Event-Driven Process Chain (EPC) 94
expert systems (ES) 192

F

function
  name (FN) 259
  parameters (FPs) 259
Functional Parameters 37
Functional view 35, 37, 47
fuzzy cognitive maps (FCM) 237, 238
Fuzzy model designer (FMD) 250

G

generative constraint satisfaction 224
generic product model 36
gometric structure 35
graphical design environment 130
Graphic User Interface Modeler 43

H

hierarchical framework 167

I

information technology (IT) 162, 190
Integrated Development Environment (IDE) 44
intelligent manufacturing systems (IMS) 157
inter-APs mapping 149
Interacting with Computers, 13 120
International Benchmarking Clearinghouse Process
  Classification framework 91
Internet Information Server (IIS) 116
IP-based Virtual Private Networks (IP-VPN) 227
IT framework 165

K

Knowledge Base Modeler 43

L

Lean Enterprise Manufacturing Model 91
load (QTCP) 48

M

make-to-order (MTO) 42, 187, 191
make-to-stock (MTS) 188
manufacturing-related tasks xii
markets of one xii
mass customisation (MC) 2, 163, 185, 237, 238, 256
  paradigm 59
  scenarios 33
mass customization xii
mass production (MP) 2
Material requirement planning (MRP) 190
model
  -based diagnosis 226
  -driven architecture (MDA) 143
  -driven development (MDD) 144
  morphisms (MoMo) 153
modern kanban 139

N

neutral format (NF) 147
engineering-to-order 42
entifiered modeling language (UML) 152

O

object constraint language (OCL) 225
Object Management Group (OMG) 143
OCL (object constraint language) 144
ocument object model (DOM) 148
OMG’s Object Request Brokers (ORBs) 145
optimal changeover and target inventory (OCTI) 181
option relationships (OR) 38

P
Physical
structure 35
view 38
Pine, Joseph B. xii
platform
-independent model (PIM) 143, 146
-specific model (PSM) 144
-specific models (PSM) 146
product architecture 39
product customization xii
Product Data Technologies (PDT) 44
product family architecture (PFA) 36, 257
Product Function 37
production-centric model 162
product life cycle (PLC) 137
Product Variant Master method 64
Project Management Process Reference model 91

R
receiver state parameters (RSPs) 259
repair actions 129
Robotics and Computer Integrated Manufacturing, 16 120

S
Scenarios developer (SDe) 250
SCOR framework 94
SDAI level 148
semiconductor manufacturing firm (STM) 174
Service
-oriented environment (SOE) 145
-service-oriented architecture (SOA) 137, 145
-service engineering (SE) 255, 256, 258
ship-to-order (STO) 187, 190
Simulation and analysis (SA) 251
SOAP (simple object access protocol) 145
speed (VR) 48
standard
-based framework 136
-data access interface (SDAI) 142, 148
-representations 224
-stock-keeping units (SKUs) 78
-strategic option design and assessment (SODA) 199
-structural view 35
Supply Chain (SC) 189
Council 77
Supply Chain Operations Reference model (SCOR) 77, 78, 93
systematic quantitative assessment of scenarios heuristics (SQUASH) 207

T
Technical
Solutions 48
Systems Theory 35
Technological
view 37, 48
technology 35
tree of Design Concepts 37

U
UDDI registry (universal description, discovery, and integration) 145
ull customization (FC) 2
UML (unified modelling language) 144
-metamodel architecture 64
-union influences (FIs) 259
-unified modelling language (UML) 64, 225
Universal Standard Products and Services Classification Code (UNSPSC) 225

V
variant mode and effects analysis (VMEA) 79

W
Web-based
-architecture 22
-configurators 221
Web-centric
-trading markets 167
Web Services Interoperability Organization (WS-I) 145
World Wide Web Consortium (W3C) 145
WSDL (Web services description language) 145

X
XML (extended markup language) 145
XML metadata interchange (XMI) 151