Index

Numbers in italics indicate tables or figures

advertising
  assessment of 151–2, 163–4
  common patterns notion 148, 151
  and Creativity Templates 148, 150–2, 164–6
divergent thinking for 148
examples
  Bally shoes 122
  British Lipton Tennis Championship 148, 149
  Canadian Open Tennis Championship 148, 149
  French Open Tennis Championship 148, 149, 150
  Nike-Air® 120, 151
Janusian approach 152
product space concept 151
Raskin's psycholinguistic theory 152
resonance approach 152
symbols set 151
Template approach 147–66
  Competition Template (Attribute in Competition, Worth in Competition and Uncommon Use) 156–7, 161
  Consequences Template (Extreme and Inverted Consequences) 156–7, 161, 162
  Dimensionality Alteration Template (New Parameter Connection, Multiplication, Division, Time Leap) 158–9, 163–4
  Extreme Situation Template (Absurd Alternative, Extreme Attribute and Extreme Worth) 154–5, 161
  Interactive Experiment Template 158–9, 161–2, 163
  Pictorial Analogy Template (Replacement and Extreme Analogy) 154–5, 160
  Template distribution in advertisements 163–4
aggregate diffusion parameters 17
Alexandria lighthouse 7–8, 59–60
Altschuller’s creativity methods 33–4
amphibious car, source classification 214
antenna in the snow 59–62
Attribute Dependency Template 59–75

accidents as sources of ideas 73
Attribute vs. Replacement Dependency 122–3
between attributes vs. within attributes 74–5
cases/examples
  antenna in the snow 59–62
  baby-food 74
  candles, making a better 71–3
  chair 64–5
  chameleon 63
  common cold pain relievers 74
diapers, disposable 74
Domino’s Pizza 66–71
innovative lipstick 62–3
Lighthouse of Alexandria 7–8, 59–60
Post-It Notes® 134
components 64–5
cycles of dependencies 75
definition 9
Forecasting Matrix 88
generalization of 62–3
graphical depiction 64
implementation range 64
and macro operators 173
in nature 63
searching for 76
study of effectiveness for idea generation 188–92, 192–4
variables
  and components 65
  price as a dependent variable 68
time as a relevant variable 65, 68
attribute space 168
awareness creation see market awareness
baby ointments
  analysis of, and the Forecasting Matrix 89–94
  Template effectiveness study 188–92
baby-food 74
Bally shoe ads 122
bandage
  invention of 201
  source classification 214
bank, Template effectiveness study 185–7
blockbuster products, can Templates explain emergence? 180–4
Post-It Notes® 182, 183
Sony Walkman® 182, 183
brainstorming 45–53
adverse effects 46–50
deferred judgment creating a chaotic world 48
distractions 48
fear of assessment 48–9
free riding 48
illusion of group effectiveness 49–50
production blocking 47–8
application 45, 46–7
Conceptual Brainstorming 46
EBS (electronic brainstorming) 51–2
effectiveness, suggestions for 53
focused brainstorming 52–3
and nominal group methods 46–7
Osborne's conceptualized approach guidelines 45–6
popularity, reasons for
client impressing 50
common organizational memory support 50
competition over status 50
diversification of ability 50
Screening 46
teamworking as an alternative 50–1
British Lipton Tennis Championship 148, 149
butter patties 116–18
cake mix for home baking 124
Canadian Open Tennis Championship 148, 149
candle, making a better 71–3
candle, making a better 71–3
consumer awareness 17
consumer interaction 17
covariates, effect with success/failure prediction 210–11
creativity
Altschuller’s methods 33–4
creative people 32–3
creative process 33
creative spark ignition 30–1
creative thinking and ideas 30, 33–5
creativity code 30
definition 29–30
and genius and insanity 32
lateral thinking 53
mind mapping 54
random stimulation 54
'Six Thinking Hat' method 54
see also brainstorming
Creativity Templates
and Altschuller’s methods 34
application areas 1–10
effectiveness studies
Study 1: credit company 185–7
Study 2: bank involved in savings accounts 187–8
Study 3: lateral thinking idea generation 188–92
Study 4: drinking glass idea generation 192–4
Function Follows Form (FFF) principle 41, 83
and ideation 40
identification for advertising 150–2
for knowledge base manipulation 23
as macro operators 173–6
and Morphological Analysis 40–1
new candidate product prediction 41
restricted scope principle 41
validation of Templates theory 180–95
see also advertising; Attribute Dependency
Template; Component Control Template;
Displacement Template; Division Template;
new product success/failure prediction;
credit company, Template effectiveness study
185–7
curtain replacement in Russian theater 101, 102
customer feedback marketing considerations 15
customer reaction prediction 35–6
cycles of dependencies 75
Darwin's theory of evolution, comparisons 23
De Bono, E.
lateral thinking 53
'Six Thinking Hat' creativity-enhancement method 54
diapers, disposable 74
diffusion parameters, aggregate and individual-based 17
Dimensionality Alteration Template (New Parameter Connection, Multiplication, Division, Time Leap) 158–9, 162–3
Displacement Template 124–33
advantages 130
and blockbuster products 183
definition/description 124–5
examples
cake mix for home baking 124
legless chair 126
Mango® (Motorola's cellular phone) 125
sales catalogues of reduced size 131
smokeless cigarettes 130
soap that floats (Procter & Gamble) 131–2
Sony Walkman® 127
TV set with no picture 128–9
vacuum package 124–5
Waxless candle® (Ronson Company) 130–1
Function Follows Form (FFF) 126
implementation 128–9
as a macro operator 175, 176
operational prescription 132–3
quantitative attribute, displacement of 131–2
Replacement Template, differences between 124, 125–6
and unbundling 127–8, 132
Division Template 176
and blockbuster products 183
Domino's 30-min pizza delivery 6–7, 66–71
Attribute Dependency Template features
price (dependent variable) 68–9
table of dependencies 68
temperature (independent variable) 68–9
time (independent variable) 68
competitors' strategies 67–8
market background 66–7
problems and prospects 69–70
Replacement Template implementation 104–5
doors in cars 101
dreamers 38
drinking glass, and the Forecasting Matrix 79–89
early determinants, why they can predict success 211–13
EBS, electronic brainstorming 51–2
Edison, T. A.
on inventions from hard work 37
inventive ability 2
swimming pool pump 1
effectiveness
see Templates, effectiveness studies
Extreme Situation Template (Absurd Alternative, Extreme Attribute and Extreme Worth) 154–5, 161
extrinsic sources for ideas 13–14
failure prediction
see new product success/failure prediction
flat tire wheel change 102–3
following a trend 201
Forecasting matrix 76–97
Attribute Dependency Template with 88, 92
baby ointment analysis 89–94
active ingredient concentration 94
matrix for 90–4
odor and amount of excretion 92–3
product description 89–90
table of elements 91
time and viscosity 93–4
concept 78–80
degenerated matrix 94–5
definition 94
drinking glass examination 79–89
definition 94
as a thinking exercise 85
heuristics for improving scanning efficiency 96–7
ideation process issue management 94–6
marketing state description 89
matrix for 80
matrix elements 79
operational prescription 98
saturated matrix 95
table of elements 80
variables
classification of 76–8
external 86–9
internal 81–5
freedom of thought, and ideation 39–40
French Open Tennis Championship 148, 149, 150
Function Follows Form (FFF) principle 41, 83, 106, 126
genius by Edison, T. A. 2
creativity and insanity? 32
glass, drinking, and the Forecasting Matrix 79–89
hair shampoo 135–7, 138–40
hermit crab 104
heuristics, for improving matrix scanning efficiency 96–7
ideas, creative 30
original, need for 33
see also creativity ideation
and Creativity Templates 40
and dreamers 38
and freedom of thought 39–40
as an ideas source 13–14
ideation process issue management 94–6
restricted and unrestricted considerations 36–40
and the Sparseness Theory 35
study of Template approach as trainable 184–5
synergetic effect 38
and Templates theory validation 194–5
Von Oech’s tools 37
see also creativity individual-based diffusion parameters 17
innovation
innovative lipstick 62–3
Replacement Template for 105–9
Interactive Experiment Template 158–9, 161–2, 163
inventions, simultaneous 21
Janusian approach to creative advertising 152
lateral thinking 53
laws of product evolution 179
lead users 16–17
leadership status and innovative firms 13
lighthouse, Alexandria 7–8, 59–60
link (between components) 108
lipstick, innovative 62–3
liquid soap, mapping research on 179–80, 181, 182
macro operators 173–6
Mango® (Motorola’s cellular phone) 125
manic-depressive illness and creativity 32
mapping research 179–80
on soap-related products 179–80
market awareness
diffusion of new idea awareness 19–20
emerging need considerations 18, 19–23
manufacturers’ responses 20
S-shaped curve analysis 21–3
market needs and desires
chair example 24–5
and Darwin’s theory of evolution 23
shoe example 25–6
market research
methods/techniques 15–16
for new product design and success forecasting 26
for new products 201
value of 26
market-based information 13
macro level evaluation 17–21
mapping/encoding 23, 24
micro level evaluation 16–17
marketing, creative and conventional approaches 87
matrix see Forecasting matrix
mattresses, Template effectiveness study 188–91
mental invention 200–1
mind mapping 54
Morphological Analysis, and Creativity Templates 40–1, 152
need spotting 200, 201
new product promotion companies 20–1
new product success/failure prediction 197–214
early determinants, why success can be predicted 211–13
environmental influences 198
market acceptance and rejection 198–9
project-level determinants 202–4
changes in technology 203
newness to the firm 203
newness to the market 202
product primary advantages 203–4
research approaches 198
Template prediction success studies 205–10
effect of covariates 210
patented products 205–6
unified model of idea evaluation 206–10
Template predictive power hypotheses
early analysis performances 204
idea source 204
Templates 204
Template-based approach 199–214
early determinants 200–2
following a trend 201
idea sources 200–2
market research for new products 201
mental invention 200–1
need spotting 200, 201
solution spotting 200, 201
Nike-Air® shoes 119–21
advertisement 151
operators see product operators Orbit® chewing gum 142
oriented graphs 170
Osborne’s conceptualized approach to brainstorming 45–6

patents
product success prediction with Templates study 205–6
radio-cassette locking 20–1
and simultaneous inventions 21
Pepsi Clear®
following a trend product adoption 201
source classification 215
Pictorial Analogy Template: Replacement and Extreme Analogy 154–5, 160
pizza delivery see Domino’s 30-min pizza delivery Polavision®, source classification 215
Polo Harlequin® car (Volkswagen) 4–5, 6
Post-It Notes® (3M) 14, 134, 182
Pressman® (Sony) 14, 127
product configurations 108–9, 168–71
characteristics: internal and external 168–9
links 168–9
space concept 151, 168
product operators 171–3
inclusion and exclusion 171, 172
linking and unlinking 171, 172
splitting and joining 171, 172, 173
product-based information 13
products
structural property similarities 35–6
surface property similarities 35–6
propagation of awareness 17, 18
Ptolemy II, King 7
radio-cassette locking in cars 20–1
random events as sources of ideas 73
random stimulation, for creativity enhancement 54
Raskin’s psycholinguistic theory 152
Replacement Template 99–123
and blockbuster products 183
cases/examples
antenna in snow 61
Bally shoe ads 122
butter patties 116–18
candle, making a better 72
car doors 101
chair 109–14
Domino’s pizzas 104–5
flat tire wheel change 102–3
hermit crab 104
Nike-Air® shoes 119–21
Russian theater curtain replacement 101, 102
scanner 114–16
Search for Extraterrestrial Intelligence (SETI) 100
close world condition 103–4
components, internal and external 107–8
configuration of product 108–9
definition/description 4, 99
exclusion, when appropriate? 119
forbidden replacement 114
Function Follows Form (FFF) principle 106
implementation 104–9
include suitable external component operator 175
for innovation 105–9
join operator 175
link (between components) 108
and macro operators 174–5
operational prescription 123
Replacement vs. Attribute Dependency 122–3
split and exclude operators 174–5
step-by-step presentation 116–18
resonance approach to creative advertising 152
Russian theater curtain replacement 101, 102
S-shaped curve analysis 21–3
sales catalogues of reduced size 131
Sastratus of Cnidus, Alexandria lighthouse 8
scanner, and Replacement Template 114–16
Screening in brainstorming 46
Search for Extraterrestrial Intelligence (SETI) 100
shampoo, mapping research on 179–80, 181, 182
shoes, as marketing example 25–6
’s Six Thinking Hat’ creativity enhancement method 54
smokeless cigarettes 130
source classification 215
snacking doll, source classification 216
soap-related products, mapping research on 179–80, 181, 182
soap that floats (Procter & Gamble) 131–2
solution spotting 200, 201
Sony Walkman® 14, 127, 182–3
source classification examples 214–16
space
attribute space 168
component space 168
Sparseness Theory 35
split and exclude operators 174–5
spontaneous discovery awareness creation 18
structural properties, similarities between products 35–6
success prediction see new product success/failure prediction
surface properties, similarities between products 35–6
surprise and regularity, balance between 35–6
symbols set 151
synergy, and ideation 38

Index
Templates (cont.)
effectiveness studies
  Study 1: credit company 185–7
  Study 2: bank involved in savings accounts 187–8
  Study 3: lateral thinking idea generation 188–92
  Study 4: drinking glass idea generation 192–4
  explaining/predicting blockbuster product emergence 180–4
  trainable as an ideation method? 184–5
  see also new product success/failure prediction
  Thermos® flask, source classification 215
  trend identification 17
  TV set with no picture 128–9
  ultrasonic device against cats, source classification 215
  unbundling, and Displacement Template 127–8, 132
  unified model of idea evaluation, success prediction with Templates study 205–6
  unpredictictability 35
  unwaxed candle, source classification 216
  vacuum package 124–5
  variables
    classification of 76–8
    dependent and independent 78
    external defined 77
    examples 77, 86–9
    internal defined 76
    examples 77, 81–5
    and the Replacement Template 108–9
  Vaseline®
    invention of 201
    source classification 215
    voice of the customer 15
  Von Oech’s ideation tools 37
  Walkman® (Sony) 14, 127, 182–3
  Waxless candle® (Ronson Company) 130–1
  wheel change for flat tire 102–3
  Wirefree Ltd, car cellular phone speakers 3, 4
  women’s stocking, radiation filtering by 140–1
  word-of-mouth awareness creation 18
  workshops of effectiveness see Templates, effectiveness study workshops