

Contents

Preface

xvii

I Elements of Diffusion : An Overview

Water-Boiling in a Peruvian Village: <i>An Example of Innovation that Failed</i>	2
The Village	2
Mrs. A: Custom-Oriented	3
Mrs. B: Persuaded	4
Mrs. C: Rejector	4
Understanding Why Water-Boiling Failed	5
Social Change	6
What Is Social Change?	7
Immanent and Contact Change: Categories of Social Change	8
Individual and Social System Change: Levels at which Change Occurs	10
Communication and Social Change	11
Communication and Diffusion	12
Heterophily and Diffusion	14
Time Lags in Diffusion	16
Consequences of Innovations	17
Elements in the Diffusion of Innovations	18
The Innovation	19
Communication Channels	23
Over Time	24
Among Members of a Social System	28
Summary	38
Purpose of This Book	41

2 Merging Diffusion Research Traditions : The Middle Range Analysis

Traditions of Research on Diffusion	48
Anthropology	48
Early Sociology	52
Rural Sociology	53
Education	57
Medical Sociology	62
Communication	66
Marketing	68
Other Traditions	69
A Typology of Diffusion Research	70
Contributions and Shortcomings of Diffusion Research	76
Contributions	76
Shortcomings	77
Middle Range Analysis	85
Grand Theory Versus Raw Empiricism	85
Relating Theory and Research: The Middle Range	88
Shortcomings of the Present Approach	91
Summary	95

3 The Innovation-Decision Process

A Model of the Innovation-Decision Process	100
The Adoption Process	100
Paradigm of the Innovation-Decision Process	101
Knowledge Function	104
Which Comes First, Needs or Awareness?	104
Types of Knowledge	106
Early Versus Late Knowers of Innovations	107
Knowledge-Behavior Consistency	108
Persuasion Function	109
Types of Attitudes	110
Attitude-Behavior Consistency	111
Decision Function	112
Confirmation Function	113
Dissonance	114
Discontinuance	115
The Home Canning Campaign in Georgia	118
The Campaign	118
Lula McCommons' Innovation-Decision	118
Consequences of the Campaign	119
Are There Functions in the Process?	120
Evidence of the Functions	120
Methodological Problems in Studying Stages	122
Becoming a Marijuana User	124
Trial-Adoption	125
Knowledge	126
Persuasion and Confirmation	127
Conclusions	127
Innovation-Decision Period	128
Rate of Awareness-Knowledge, and Rate of Adoption	128
Length of the Period by Adopter Category	131
Summary	132

4 Perceived Attributes of Innovations and Their Rate of Adoption

The Pill That Failed	136
Attributes of Innovations	137
Relative Advantage	138
Crisis	138
Relative Advantage and Rate of Adoption	139
Peasants and Relative Advantage	142
Effects of Incentives	144
Compatibility	145
With Values	146
With Previously Introduced Ideas	147
With Needs	148
Compatibility and Rate of Adoption	148
Innovation Packages	153
Complexity	154
Trialability	155
Observability	155
Explaining Rate of Adoption	157
The Diffusion Effect	161
Overadoption	164
Summary	167
Needed Research on Attributes of Innovations	168
Measuring Perceived Attributes at the Time of Decision	169
Differential Perceptions by Different Groups	170
Improved Measurement of Perceived Attributes	170
Factor Analysis of Perceived Attributes	171
Studying Innovation Bundles	171

5 Adopter Categories

Innovativeness and Adopter Categories	176
The Need to Standardize Categories	176
S-Curve of Adoption Over Time	176
Testing Adopter Distributions for Normality	179
A Method of Adopter Categorization	180
Adopter Categories as Ideal Types	183
Innovators: Venturesome	183
Early Adopters: Respectable	184
Early Majority: Deliberate	184
Late Majority: Skeptical	184
Laggards: Traditional	185
Characteristics of Adopter Categories	185
Socioeconomic Characteristics	185
Personality Variables	187
Communication Behavior	188
Predicting Innovativeness	191
Approaches to Prediction	191
Multiple Correlation Approach	192
Simulation of Innovation Diffusion	192
Computer Simulation	192
Simulation Training Games	194
Summary	195

6 Opinion Leadership and the Multi-Step Flow of Ideas

Opinion Leadership and the Diffusion of Modern Math	200
Models of Mass Communication Flows	203
Hypodermic Needle Model	203
Two-Step Flow Model	205
One-Step Flow Model	208
Multi-Step Flow Model	209
Homophily-Heterophily and the Flow of Communication	210
Homophily-Heterophily	210
Homophily as a Barrier to Diffusion	212
Homophily-Heterophily in Traditional and Modern Systems	214
Measuring Opinion Leadership	215
Characteristics of Opinion Leaders	217
External Communication	218
Accessibility	218
Social Status	218
Innovativeness	219
Innovativeness, Opinion Leadership, and Norms	219
Changing the Guard in a Colombian Peasant Village	222
Monomorphic and Polymorphic Opinion Leadership	223
Summary	224

7 The Change Agent

The Role of the Change Agent	228
The Sequence of Change Agent Roles	229
Thrown Onto the Edge of Asia	230
Change Agent Effort	233
Change Agency Versus Client Orientation	236
Compatibility with Clients' Needs	237
Change Agent Empathy	239
Homophily and Change Agent-Client Contact	240
Opinion Leaders	243
Change Agent Credibility	244
Clients' Evaluative Ability	247
Summary	248

8 Communication Channels

Types of Communication Channels	251
Categorizing Channels	252
Interpersonal Channels in the Diffusion of Home Air Conditioners	253
Channels by Functions in the Innovation-Decision Process	255
Mass Media Versus Interpersonal Channels	255
Cosmopolite Versus Localite Channels	258
Communication Channels by Adopter Categories	259
Combining Mass Media with Interpersonal Channels	260
Types of Media Forums	261
Effects of Media Forums	262
Implications for Change Agents	263
Needed Research	265
Summary	266

9 Collective Innovation-Decisions

Types of Innovation-Decisions and Rate of Adoption	269
Community Power and Decision-Making	272
Stages and Roles in Collective Decision-Making	275
Stimulation	277
Initiation	278
Legitimation	280
Concentration of Power	282
Public Visibility of Power	283
Power Concentration and Rate of Adoption	284
Participation in Collective Decisions	285
Satisfaction and Participation	286
Member Acceptance of Collective Decisions	287
Member Acceptance and Cohesion	290
The Role of Change Agents in Collective Decisions	291
The Battle at Stevens Point: Fluoridation's Waterloo	292
Needed Research	295
Summary	296

**10 Authority Innovation-Decisions and
Organizational Change**

Adoption of Visual Aids in Adams High School	300
What Is an Authority Innovation-Decision?	301
Characteristics of Formal Organizations	303
The Process of Authority Innovation-Decisions	304
Knowledge	306
Persuasion	307
Decision	308
Communication	309
Action	310
Approaches to Organizational Change	312
Authoritative Approach	313
Participative Approach	313
Need for an Adaptive Unit	314
Summary	315

II Consequences of Innovations

In the Wake of the Wheel	320
A Model for Studying Consequences	321
Consequences of Educational Innovations	321
Consequences among Peasants	322
Why Have Consequences Not Been Studied More?	324
Two Examples of the Consequences of Innovation	326
From Hoes to Diesels in Turkey	326
Programmed Learning and Teachers' Need to Perform	329
Classification of Consequences	330
Functional Versus Dysfunctional Consequences	330
Direct Versus Indirect Consequences	332
Manifest Versus Latent Consequences	333
Steel Axes for Stone Age Aborigines	335
The Intrinsic Elements of an Innovation	336
The Change Agent's Responsibilities for Consequences	338
What Is an Ideal Rate of Change?	339
The Power Elite in a Social System and the Consequences of Innovation	340
The Elite and Restructuring Innovations	340
The Elite and the Distribution of Good	342
Summary	342