MARKETING SCALES HANDBOOK
Multi-Item Measures for Consumer Insight Research

VOLUME 9

GORDON C. BRUNER II
Marketing Scales Handbook

Multi-Item Measures for Consumer Insight Research

Volume 9
(sample)

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# TABLE OF CONTENTS

Preface ................................................................................................................................. xix
Acknowledgements ................................................................................................................ xx
Introduction ............................................................................................................................. xxi
Scale Reviews ........................................................................................................................ 1
  Acceptance of Behavioral Targeting .................................................................................. 3
  Ad Emphasis on Benefits vs. Attributes .......................................................................... 5
  Ad Incongruence Resolution ......................................................................................... 6
  Ad-Evoked Interest in the Brand .................................................................................... 7
  Advertising Relevance Expectation .............................................................................. 8
  Affective Response to the Ad (Vulnerability) ............................................................. 10
  Altruism .......................................................................................................................... 12
  Anthropomorphism (General) ...................................................................................... 13
  Anthropomorphism of Time ......................................................................................... 15
  Anxiety (Social) ............................................................................................................ 17
  Anxiety (Social) ............................................................................................................ 19
  Appreciation Felt ......................................................................................................... 21
  Argument Strength ....................................................................................................... 22
  Arousal .......................................................................................................................... 24
  Arousal During the Auction ......................................................................................... 25
  Athletic Skill Control ................................................................................................... 27
  Athleticism ..................................................................................................................... 28
  Attachment to the Employees ...................................................................................... 29
  Attachment to the Other Customers ............................................................................ 31
  Attention (Experiencing versus Mind Wandering) ..................................................... 33
  Attention to the Ad (General) ..................................................................................... 35
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attention to the Ad (Message Content)</td>
<td>36</td>
</tr>
<tr>
<td>Attention to the Celebrity’s Image</td>
<td>37</td>
</tr>
<tr>
<td>Attitude Predictability</td>
<td>38</td>
</tr>
<tr>
<td>Attitude Strength</td>
<td>40</td>
</tr>
<tr>
<td>Attitude Toward “Green” Advertising (Usefulness)</td>
<td>42</td>
</tr>
<tr>
<td>Attitude Toward “Green” Products</td>
<td>43</td>
</tr>
<tr>
<td>Attitude Toward Advertising (Negative)</td>
<td>44</td>
</tr>
<tr>
<td>Attitude Toward Advertising of a Brand (Future)</td>
<td>46</td>
</tr>
<tr>
<td>Attitude Toward Advertising of a Brand (Past)</td>
<td>48</td>
</tr>
<tr>
<td>Attitude Toward Non–Core Users</td>
<td>50</td>
</tr>
<tr>
<td>Attitude Toward Personal Consumption of Alcohol</td>
<td>51</td>
</tr>
<tr>
<td>Attitude Toward Sex in the Media</td>
<td>53</td>
</tr>
<tr>
<td>Attitude Toward the Act (General)</td>
<td>54</td>
</tr>
<tr>
<td>Attitude Toward the Act (Installing a Product)</td>
<td>55</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Activity Judgments)</td>
<td>57</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Attractiveness)</td>
<td>58</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Divergence)</td>
<td>59</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Informativeness)</td>
<td>61</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Liveliness)</td>
<td>62</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Meaningfulness)</td>
<td>63</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Surprising)</td>
<td>65</td>
</tr>
<tr>
<td>Attitude Toward the Ad (Vividness)</td>
<td>66</td>
</tr>
<tr>
<td>Attitude Toward the Ad’s Personalization</td>
<td>68</td>
</tr>
<tr>
<td>Attitude Toward the Article</td>
<td>70</td>
</tr>
<tr>
<td>Attitude Toward the Article (Clarity)</td>
<td>71</td>
</tr>
<tr>
<td>Attitude Toward the Ban</td>
<td>73</td>
</tr>
<tr>
<td>Attitude Toward the Brand (Celebrity Endorsement)</td>
<td>75</td>
</tr>
<tr>
<td>Attitude Toward the Brand (Comparative)</td>
<td>77</td>
</tr>
<tr>
<td>Attitude Toward the Brand (Symbolism)</td>
<td>79</td>
</tr>
</tbody>
</table>
Co-Production Enjoyment .................................................................................. 168
Corporate Social Responsibility (Effect on Customer’s Support) ...................... 170
Corporate Social Responsibility (Obligation) ................................................... 172
Counterculturalism .......................................................................................... 174
Cultural Identity ............................................................................................... 175
Day Quality Expectation .................................................................................. 177
Deservingness (Special Purchase for Self) ......................................................... 178
Desirability of Control ..................................................................................... 180
Desire for Status ............................................................................................... 182
Desire to Win the Auction ................................................................................ 183
Devotion to Another ........................................................................................ 185
Dietary Control Behaviors ............................................................................... 187
Disconfirmation of the Experience .................................................................. 189
Dominance-Seeking ......................................................................................... 190
Dominating the Brand ...................................................................................... 192
Donate to Improve Equality (Social Norms) ..................................................... 193
Donation Efficacy ............................................................................................. 195
Donation Happiness ........................................................................................ 197
Dysfunctional Spending During Travel .............................................................. 198
E-mail Message Informativeness ...................................................................... 200
E-mail Message Irritativeness .......................................................................... 202
E-mail Message Riskiness ............................................................................... 204
E-mail Sender Trustworthiness ........................................................................ 206
Empathy ........................................................................................................... 208
Empathy (Mentalizing Likelihood) .................................................................... 210
Employee Rapport ............................................................................................. 212
Empowerment (General) .................................................................................. 214
Engagement (Felt) ........................................................................................... 215
Engagement (General) ...................................................................................... 217
Engagement in the Choice Process .............................................................. 219
Environmental Impact of the Product ......................................................... 220
Environmentalism (Product Choices) .......................................................... 222
Environmentalism (Purchasing Behavior) .................................................... 223
Ethnic Identification (Exploration & Commitment) ....................................... 225
Exhibitionism of the Person ........................................................................ 227
Expertise with Humor ............................................................................. 228
Fairness (Business’s Treatment of the Customer) ......................................... 229
Fate Malleability .................................................................................... 230
Fear of Negative Evaluation .................................................................... 231
Fearfulness .............................................................................................. 233
Figure-Ground Contrast in the Ad .............................................................. 234
Financial Contentment .......................................................................... 236
Firm’s Motivation to Help the Environment ............................................... 237
Focus on Affect During Ad Evaluation ....................................................... 238
Fragility (Gender Comparison) ................................................................. 239
Frequency of the Experience .................................................................... 240
Gift Certificate Evaluation (Affective) ......................................................... 241
Gift Inappropriateness ............................................................................ 242
Goal Commitment .................................................................................. 243
Gratitude Expressed by Others ................................................................. 245
Group Comparison Concerns .................................................................... 246
Group Competitiveness Desire .................................................................. 247
Group Image Concerns ........................................................................... 248
Guilt ........................................................................................................ 249
Guilt ........................................................................................................ 250
Guilt ........................................................................................................ 251
Guilt (Not Buying Cause-Related Deal) ..................................................... 253
Guilt Appraisal (Donation Failure) ............................................................ 254
Happiness (State) ............................................................................ 255
Happiness with the Experience............................................................ 256
Health Importance ........................................................................... 257
Healthy Eating Concern (Gender Stereotype) ....................................... 258
Helpfulness ..................................................................................... 259
Homophily ...................................................................................... 260
Homophily ...................................................................................... 261
Hope (Dispositional) ......................................................................... 262
Humanness ..................................................................................... 263
Identification with the Environmental Organization ................................ 265
Imagery Vividness (Visual) ................................................................. 267
Implicit Person Theory ...................................................................... 268
Importance of Having Money ............................................................. 270
Impulse Buying (Product Specific) ....................................................... 271
Impulse Buying Tendency .................................................................. 273
Incongruity (General) ....................................................................... 275
Infection Severity ............................................................................ 277
Informativeness (General) .................................................................. 279
Insecurity (Social) ............................................................................ 280
Intelligence ..................................................................................... 282
Intention to Engage in the Exercise .................................................... 284
Intention to Prevent Heart Disease .................................................... 285
Intention to Prevent Skin Cancer ....................................................... 287
Intention to Support the Nonprofit .................................................... 288
Intrusion Pressure from Employees ................................................... 289
Intrusion Pressure from Employees ................................................... 290
Involvement (General) ..................................................................... 291
Involvement in the Exercise .............................................................. 293
Involvement with Sales .................................................................... 295
Involvement with the Internet ........................................................... 297
Involvement with the Product Category (Choice Uncertainty) .......... 298
Involvement with the Product Category (Pleasure) ............................... 300
Involvement with the Product Category (Sign) ..................................... 302
Involvement with the Sport ................................................................... 304
Involvement with the Sports-related Event .......................................... 306
Justice of the Website (Distributive) ................................................... 308
Justice of the Website (Procedural)..................................................... 309
Knowledge (Domain Specific) ............................................................ 310
Knowledge (Subjective) .................................................................... 312
Lay Rationalism ............................................................................... 313
Littering Intention ............................................................................ 315
Love (Dispositional) ......................................................................... 317
Love (State) ................................................................................... 318
Loyalty Intentions ............................................................................ 319
Loyalty to the Store ......................................................................... 321
Malicious Intent by Employees ........................................................... 322
Market Dynamism ............................................................................ 323
Materialism (Parent) ........................................................................ 324
Mind Wandering During a Task .......................................................... 325
Money Saving Behaviors ................................................................... 326
Mood (Global) ................................................................................. 328
Morality .......................................................................................... 329
Morality .......................................................................................... 330
Need for Cognition ........................................................................... 331
Need For Help (Person) .................................................................... 333
Need for Uniqueness (General) .......................................................... 334
Negotiation Power (Customer with Salesperson) .............................. 335
Neutral (State) ................................................................................ 336
Norm Reasonability ................................................................. 337
Novelty of the Advertised Product ................................................. 338
Organic Food’s Natural Content .................................................... 339
Organic Food’s Nutritional Value ................................................... 340
Other Person’s Confidence .......................................................... 341
Other Person’s Goodwill ............................................................. 342
Other Person’s Social Responsibility .............................................. 343
Others-Focused Experience ....................................................... 344
Parental Style (Rejection) ........................................................... 345
Parental Style (Warmth) ............................................................. 347
Patronage Reduction ................................................................. 349
Personality Adjustability ............................................................. 350
Place Attachment ....................................................................... 351
Place Attachment (Physical) ....................................................... 353
Place Attachment (Social) .......................................................... 355
Place Dependence ..................................................................... 356
Place Distinction ....................................................................... 358
Place Identity ............................................................................. 359
Place Nostalgia ........................................................................ 361
Popularity of the New Product .................................................... 362
Power (Social) ......................................................................... 363
Power Distance ......................................................................... 365
Power Felt (State) ..................................................................... 366
Power from Distinctive Products .................................................. 368
Powerfulness ............................................................................ 369
Preference for Store Brands ...................................................... 370
Price Believability .................................................................... 372
Price Consciousness .................................................................. 373
Price Fairness ............................................................................ 375
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Liking</td>
<td>376</td>
</tr>
<tr>
<td>Price-Quality Relationship</td>
<td>377</td>
</tr>
<tr>
<td>Privacy Concerns (Company’s Misuse of Information)</td>
<td>378</td>
</tr>
<tr>
<td>Privacy Concerns with Internet Usage</td>
<td>380</td>
</tr>
<tr>
<td>Privacy of Response</td>
<td>381</td>
</tr>
<tr>
<td>Product Component Centrality</td>
<td>383</td>
</tr>
<tr>
<td>Product Component Centrality</td>
<td>384</td>
</tr>
<tr>
<td>Product Component Importance</td>
<td>386</td>
</tr>
<tr>
<td>Product Design (Aesthetic)</td>
<td>388</td>
</tr>
<tr>
<td>Product Design (Functional)</td>
<td>390</td>
</tr>
<tr>
<td>Product Design (Symbolic)</td>
<td>392</td>
</tr>
<tr>
<td>Product Effectiveness (Energy Stimulation)</td>
<td>394</td>
</tr>
<tr>
<td>Product Effectiveness (Stimulation Duration)</td>
<td>396</td>
</tr>
<tr>
<td>Product Evaluation (Beverage)</td>
<td>398</td>
</tr>
<tr>
<td>Product Evaluation (Credence)</td>
<td>399</td>
</tr>
<tr>
<td>Product Evaluation (Experience)</td>
<td>401</td>
</tr>
<tr>
<td>Product Evaluation (Search)</td>
<td>403</td>
</tr>
<tr>
<td>Product Selection Freedom</td>
<td>405</td>
</tr>
<tr>
<td>Production Effort</td>
<td>407</td>
</tr>
<tr>
<td>Prorelationship Behaviors (Ability)</td>
<td>408</td>
</tr>
<tr>
<td>Prorelationship Behaviors (Motivation)</td>
<td>409</td>
</tr>
<tr>
<td>Prosocial Consumption (Close-Others)</td>
<td>411</td>
</tr>
<tr>
<td>Prosocial Consumption (Distant-Others)</td>
<td>412</td>
</tr>
<tr>
<td>Public Nature of Responses</td>
<td>413</td>
</tr>
<tr>
<td>Punishment Seeking</td>
<td>414</td>
</tr>
<tr>
<td>Purchase Activism</td>
<td>415</td>
</tr>
<tr>
<td>Purchase Choice Certainty</td>
<td>416</td>
</tr>
<tr>
<td>Purchase Intention (Organic Food)</td>
<td>417</td>
</tr>
<tr>
<td>Purchase Reward Expectation</td>
<td>418</td>
</tr>
</tbody>
</table>
Responsibility to Help Others ............................................................. 462
Retail Patronage (By Store Type) .......................................................... 463
Retaliation Against Employees ............................................................ 465
Review Helpfulness ........................................................................ 467
Review Writer’s Intention to be Helpful .............................................. 468
Risk (Performance) ........................................................................ 469
Risk in Choosing From an Assortment ................................................ 471
Riskiness of Unprotected Sex ............................................................ 473
Romantic Pursuit ............................................................................. 474
Safety of the Food Product .................................................................. 475
Salesperson’s Customer Orientation (Functional) .................................. 477
Salesperson’s Customer Orientation (Relational) .................................. 478
Satisfaction with the Business ............................................................ 480
Satisfaction with the Co-Production Process ....................................... 481
Satisfaction with the Customization Decision ..................................... 483
Satisfaction with the Discount ............................................................ 484
Scarcity (Personal Resources) ............................................................. 485
Self Image Concerns ........................................................................ 486
Self-Accountability for Group Performance ......................................... 487
Self-Concept (Collective) ................................................................. 488
Self-Concept (Relational) ................................................................. 490
Self-Concept (Self-Discipline) ............................................................ 492
Self-Continuity Preference ................................................................. 493
Self-Defining Experience ................................................................ 494
Self-Esteem Attack Likelihood ............................................................ 495
Self-Improvement Motivation .............................................................. 496
Self-Regulatory Exertion (Math Task) ................................................ 497
Self-Regulatory Goal Progress ........................................................... 499
Self-Transformation (Acquiring an Object) .......................................... 500
Service Dominant Orientation (Concerted) ........................................... 502
Service Dominant Orientation (Developmental) ............................... 504
Service Dominant Orientation (Empowered) ....................................... 506
Service Dominant Orientation (Ethical) ............................................... 508
Service Dominant Orientation (Individuated) ...................................... 510
Service Dominant Orientation (Relational) ........................................ 512
Service Failure Attributions (Internal) ............................................. 514
Service Importance ........................................................................... 516
Service Quality (Empathy) ............................................................... 517
Service Quality (Overall) ................................................................. 519
Service Quality (Overall) ................................................................. 520
Severity of the Situation .................................................................. 522
Sharing an Experience with a Brand ............................................... 524
Shopping Choice Difficulty ............................................................... 525
Shopping Convenience (General) ..................................................... 526
Shopping Intention ............................................................................ 527
Shopping List Prioritization .............................................................. 529
Shopping Orientation (Efficiency) .................................................... 531
Shopping Orientation (Hedonic) ....................................................... 532
Shopping Trip Failure ...................................................................... 533
Shopping Value (Hedonic) ............................................................... 534
Similarity in Employees’ Appearance ............................................. 536
Skepticism of the Product Claim ...................................................... 537
Smoking-Related Beliefs (Negative) ................................................ 538
Sociability ....................................................................................... 539
Social Attraction ............................................................................. 540
Social Attraction via Twitter ............................................................ 542
Social Comparison (Appearance) .................................................... 544
Social Distance with the Mentally Ill ............................................. 545
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Identification</td>
<td>546</td>
</tr>
<tr>
<td>Social Presentation Concern</td>
<td>548</td>
</tr>
<tr>
<td>Social Support</td>
<td>549</td>
</tr>
<tr>
<td>Special Treatment Entitlement</td>
<td>551</td>
</tr>
<tr>
<td>Special Treatment Entitlement from Employees</td>
<td>552</td>
</tr>
<tr>
<td>Spending Aversion</td>
<td>553</td>
</tr>
<tr>
<td>Sponsor/Sponsee Congruence</td>
<td>554</td>
</tr>
<tr>
<td>Status (Social)</td>
<td>556</td>
</tr>
<tr>
<td>Store Atmosphere</td>
<td>557</td>
</tr>
<tr>
<td>Store Design (Attractiveness)</td>
<td>558</td>
</tr>
<tr>
<td>Store Design (Interior Layout)</td>
<td>560</td>
</tr>
<tr>
<td>Store Design (Ordering Costs)</td>
<td>562</td>
</tr>
<tr>
<td>Superstitious Beliefs</td>
<td>564</td>
</tr>
<tr>
<td>Support for Lowering the Minimum Drinking Age</td>
<td>566</td>
</tr>
<tr>
<td>Switching Costs (Benefits Lost)</td>
<td>567</td>
</tr>
<tr>
<td>Switching Costs (Investment)</td>
<td>569</td>
</tr>
<tr>
<td>Switching Costs (Learning)</td>
<td>571</td>
</tr>
<tr>
<td>Switching Costs (Uncertainty)</td>
<td>573</td>
</tr>
<tr>
<td>Switching Intention</td>
<td>575</td>
</tr>
<tr>
<td>Symbolic Embeddedness (Contentment)</td>
<td>577</td>
</tr>
<tr>
<td>Symbolic Embeddedness (Happiness)</td>
<td>578</td>
</tr>
<tr>
<td>Symbolic Embeddedness (Love)</td>
<td>579</td>
</tr>
<tr>
<td>Symbolic Embeddedness (Love)</td>
<td>581</td>
</tr>
<tr>
<td>Symbolic Embeddedness (Pride)</td>
<td>583</td>
</tr>
<tr>
<td>Task Difficulty</td>
<td>584</td>
</tr>
<tr>
<td>Task Enjoyment</td>
<td>585</td>
</tr>
<tr>
<td>Taste Evaluation (General)</td>
<td>587</td>
</tr>
<tr>
<td>Temporal Proximity</td>
<td>588</td>
</tr>
<tr>
<td>Time Availability</td>
<td>589</td>
</tr>
</tbody>
</table>
Time Availability ................................................................. 590
Time Beneficialness ............................................................ 592
Time Pressure from Employees ............................................. 593
Transformational Relationship Event ................................. 594
Treatment Seeking Likelihood ............................................. 596
Trust (Interpersonal) ............................................................ 598
Trust in Feelings ................................................................. 600
Trust in the Organization’s Treatment of Members ............. 602
Trust in the Third-Party Label ............................................. 604
Trustworthiness (General) ................................................... 606
Uniqueness of the Design .................................................... 607
Usefulness of the Shopping Aid .......................................... 609
Value of the Transaction .................................................... 611
Values (Biospheric) ............................................................ 612
Values (Egoistic) ................................................................. 613
Variety Within the Assortment .......................................... 615
Visibility (Social) ............................................................... 616
Visual Complexity .............................................................. 617
Visual Processing Fluency (General) ................................. 618
Visual Processing Fluency (Product Customization) .......... 619
Vividness (General) ............................................................ 621
Vulnerability (Health) .......................................................... 622
Water Conservation Intention ............................................. 623
Weariness ........................................................................... 625
Website’s User-Generated Content .................................... 626
Willingness to Pay a Price Premium .................................... 627
Willingness to Purchase a Product as a Gift ....................... 628
Willingness to Purchase the Advertised Brand .................... 630
Willingness to Purchase the Company’s Products .............. 632
In recent years, I have tried several different ways to release the *Marketing Scales Handbooks*. There have been ebooks at *MarketingScales.com*, ebooks available on Kindle and other devices, and print books available from *Amazon.com, CreateSpace.com*, and other retail outlets. It has become clear to me that the majority of users of this material prefer it in print form rather than digital. Given what I have learned, Volume 9 is only being released in paper for individual purchases.* So much for the digital revolution, at least when it comes to material such as this!

Use of this book in paper has its drawbacks, however. The primary one apparent to me is that finding measures of interest is not as easy as it is with a digital version. While the Table of Contents is useful, I felt I should provide a Subject Index as well. Yet, creating one is a difficult task for a variety of reasons. They are also quite imperfect given that space permits only a few key words per scale. If you need more assistance in finding something of interest than is provided in the Subject Index, consider using the search function at *MarketingScales.com*. Hopefully, you can get a better idea about which key words in the Index will guide you to what you want.

As for the future of this work, I expect for it to continue for at least one more volume. I have already begun gathering articles published after the period covered in this volume and will soon begin reviewing the scales they contain. Although the day will come when I will step away from this work, that is not in my plans for the near future. Keep in mind that until the next volume is released, my reviews of new scales will be added to the database at *MarketingScales.com* in a timely manner. If you do not find something in this book that you are looking for, please search for it at the website.

*Good luck in your research!*

* As with Volumes 5-8, it is expected that this book will be released in proprietary format for sales by major suppliers of e-resources to library customers.
Acknowledgements

As I write descriptions of scales, I primarily depend upon the information in the journals articles and any appendices related to them. There are many cases, however, when I need some critical piece of information or clarification. When that happens, I attempt to contact the authors. They do not always respond and, if they do not, it may mean their work is not reviewed. Listed below are those authors who did respond to my requests while working on this volume. I appreciate their assistance.

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Yang Yang
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As with previous volumes, I thank my wife for understanding the time and effort I put into this work. That is doubly true now that I am retired and could be doing things she believes would be more “fun.” Sometimes I wonder as well why I continue to do it. Hmmm . . . maybe this is “fun” for the scholar in me.

May your measures always be valid!

Fort Worth, Texas
February 2017
Introduction

The scales reviewed in this volume were reported in articles published in 2014 and 2015. While that does not necessarily mean a scale was first reported during that time period, it does mean that none of the scales in this volume were in a previous volume of this series. In that sense, the scales are new to the series. If users are looking for something that is not in this book, they are urged to check out the full database at MarketingScales.com where several thousand scales that were previously reviewed are available.

Similar to Volumes 4 to 8, this volume is composed entirely of scales that were used in scholarly research of “consumers” or similar groups of respondents, e.g., viewers, patients, donors, citizens, etc. Despite that, dozens of the scales in this volume are amenable for use in a wide variety of studies and with all sorts of people, including those in an organizational context such as administrators and employees.

To be part of this volume, scales had to be composed of three or more items, have an acceptable level of empirical evidence of their psychometric quality, and be reflective measures rather than formative. There were three other criteria used as well. As described below, one was a constraint imposed at the scale level, one was a constraint at the construct level, and the final one had to do with time.

At the scale level, some measures found in recent articles were not included because they were the same or very similar to ones that had been reviewed in previous volumes. They were not “new” and, because of that, there are no scales in this book with lots of uses reported over many years in the top marketing journals. The more recent uses of older scales may have been cited in the reviews at the database, however.

Another criterion used to focus the work was at the construct level. The question asked was, how many unique, alternative measures of a construct have already been reviewed and are housed in the repository at MarketingScales.com? Having alternative measures of the same construct is useful to researchers so that they can compare the various characteristics and choose the scale that best suits their purpose. But, at some point, the endless review of measures of the same construct is not the best use of time. While there was no hard and fast rule to guide this constraint, suffice it to say that the
greater the number of different measures of a construct that have already been reviewed, the less likely that yet another measure was reviewed.

The final major criterion used to manage the workload was to focus on articles from a two year period. This was begun with Volume 7 because there are limits to the number of pages a book printer (CreateSpace) will allow for paperback books. With that in mind, an initial examination was conducted of over 600 articles published in six top marketing journals during 2014 and 2015. (The journals are specified in the table on the next page.) From that group, 215 articles received greater scrutiny because they appeared to have measures of the type focused on in the series. After closer examination, some of those articles were dismissed because the measures they included did not meet enough of the stated criteria or the authors did not respond to requests for more information. Ultimately, there were 187 articles from the marketing literature domain with 433 scales that were reviewed for this book.

As for assigning names to scales, it is a more challenging task than might be imagined. It is not as simple as calling them what the users did. In some cases, the researchers described a scale without giving it a “proper” name, e.g., *the attitude scale used in the field survey*. Other times, a scale was given a name by authors that made sense in the context of their particular study but was more widely known with a more general construct name or one that would make more sense to readers, e.g., *temporary abandonment* vs. *Shopping Trip Failure*. Given this, several things were taken into account when deciding what to call each scale: what did the creators call it, what have other researchers called measures of the same construct, what is the most popular name of the construct itself among marketing scholars, and how can a long name be condensed to a reasonable length?

The layout of reviews is similar to the last few volumes but a few minor changes have been made. Details about the type of information found in the various sections of each scale review are provided in the table on the next page.
TABLE

Scale Review Format

The top of the page on which a scale review begins has a short, descriptive name. Several issues are taken into account when assigning a name and it may not be the one used by the users of the scale. See the discussion on the previous page for more details.

Just below the scale name are a few sentences that succinctly describe the construct apparently being assessed and the number of items composing the scale. If known, the number of points on the rating scale and the response format (e.g., Likert, semantic differential) are described as well.

ORIGIN:

Information about the creation of the scale is provided in this section, if known. In a substantial portion of cases, the source of the scale was not stated by the authors of the article. While in many and maybe most of those cases the authors were the likely creators of the scale, it is not always true. Sometimes the authors of the article do not cite the source and it leaves the impression the measure is original even though they borrowed it from someone else. The opposite also occurs too many times. Specifically, authors describe their scale as “adapted” from a particular source. Yet, when a comparison is made between the “adapted” scale and the cited one, there is little resemblance.

RELIABILITY:

For the most part, reliability is described in terms of internal consistency, most typically with Cronbach's alpha or construct reliability. In the few cases where it is known, scale stability (test-retest correlation) is reported as well. For those unfamiliar with these statistics, higher numbers are generally better. With particular regard to internal consistency, statistics below .60 if not .70 as well could be considered insufficiently reliable for testing theory. Few of those scales are included in the book.
VALIDITY:

There are several types of validity and no single study is expected to fully validate a scale. While it is hoped that authors of each study would provide at least some evidence of a scale’s validity, the reality is the opposite. Most articles do not have information about scale validity. At the other extreme, a few authors have provided so much information in their articles about a scale’s validation that the work is merely summarized and readers are urged to consult the cited article for more details.

COMMENTS:

This field is used occasionally when something significant was observed and was deemed important enough to mention in its own section of the review. For example, if something about a scale is judged to be deficient then readers may be urged in this section to exercise caution in using the scale. Another example is that in many cases a scale was phrased by its creators for use in a particular context but it is pointed out that with a little modification the scale seems to usable in other contexts.

REFERENCES:

Every source cited in a review is referenced in this section. The six journals that were closely examined for articles with scales are Journal of Advertising, Journal of the Academy of Marketing Science, Journal of Consumer Research, Journal of Marketing, Journal of Marketing Research, and Journal of Retailing. Citation of additional journals, books, proceedings, and other sources are provided when relevant to a review. As stated in the Acknowledgements, in many cases the scale users themselves were contacted. If they responded and provided useful information, they are cited.

ITEMS:

The statements, adjectives, or questions composing a scale are listed in this field and are generally referred to as scale items. Also, an indication of the response format is provided in this section or its footnote unless it is has been adequately specified in the description at the beginning of the review. For example, many of the measures were merely described as “Likert-type” by their authors but the specific verbal anchors of the response scale were not stated. It can be assumed the extreme anchors were strongly agree / strongly disagree or
some close variant. The graphic version of the scales and how to lay them out in a questionnaire are not provided in the reviews here because they are almost never provided in the published articles though they might be in web appendices. Concerned readers should consult books that deal with survey development or types of measurement scales.

Where an item is followed by an (r) it means that the numerical response should be reverse-coded when calculating scale scores. Since errors involving notation of reverse-coding can occur at various stages of an article’s composition, review, editing, and publication process, users of scales are urged to examine items closely to determine which ones should be reverse-coded.

The instructions for respondents that were used with scales in the questionnaires are rarely provided in the reviews here because authors of the articles in which the scales were found rarely provided them. Users of scale should feel free to contact the scale authors and ask them about the instructions and any other questions related to using the measure.
SCALE

REVIEWS
ATTENTION TO THE AD (MESSAGE CONTENT)

A person’s expressed interest in the message content of an ad and the attention he/she paid to it is measured with three, seven-point Likert-type items.

ORIGIN:

The scale was used by Yoon (2015) in three studies. She borrowed and adapted three items from a larger scale created by Nabi and colleagues (Nabi, Moyer-Guseé, and Byrne 2007; Wolski and Nabi 2000).

RELIABILITY:

Although the scale was used by Yoon (2015) in all three studies described in the article, the exact reliability of the scale was only reported for Study 1 (alpha = .94).

VALIDITY:

Yoon (2015) did not discuss the scale’s validity.

REFERENCES:


ITEMS:

1. I was interested in what the ad had to say.
2. I paid close attention to the ad’s arguments.
3. I didn’t let myself get distracted from focusing on the message content.
GOAL COMMITMENT

The five, seven-point items in the scale measure how dedicated a person is to achieving a specified goal and how much he/she will work to reach it.

ORIGIN:

Devezer et al. (2014) used the scale in Studies 1, 2, and 3. The items were taken from an index created by Tubbs (1993) which was a composite of three aspects of commitment: direct, effort-based, and valence.

RELIABILITY:

The scale’s alphas ranged from .81 to .92 in the studies in which it was used by Devezer et al. (2014).

VALIDITY:

The scale’s validity was not addressed by Devezer et al. (2014).

COMMENTS:

Tubbs (1993) viewed the commitment index as a composite of three dimensions and Devezer et al. (2014) acknowledged that view. Given that, there is some question as to whether or not the set of items borrowed by Devezer et al. (2014) compose a unidimensional scale. Potential users should be wary of using the scale in theory testing until its unidimensionality is confirmed.

REFERENCES:


ITEMS:

1. How committed are you to attaining your _____? not committed / very committed
2. To what extent do you feel committed to your _____? not at all / very much
3. How likely is it that you will work your hardest for your _____? not very likely / very likely
4. How hard will you try to reach your _____? not very hard / very hard
PATRONAGE REDUCTION

With three statements, the scale measures a customer’s regret for having patronized a certain retailer because of a bad experience there and the intention to reduce visits to the establishment if not stopping all together.

ORIGIN:

The scale was used by Ashley and Noble (2014) in Studies 2, 3, and 4. They referred to the construct as abandonment. The authors created the scale for use in the studies and drew ideas from a similar scale by Gregoire and Fisher (2006).

RELIABILITY:

The scale’s alphas were .87, .78, and .90 in Studies 2, 3, and 4, respectively (Ashley and Noble 2014, p. 80).

VALIDITY:

CFA was employed by Ashley and Noble (2014) to assess the measurement models for the studies and the conclusion was that the models had good fit. For all reflective scales in the models, there was evidence of discriminant validity. With respect to patronage reduction, the AVEs were .69 (Study 2), .54 (Study 3), and .75 (Study 4).

REFERENCES:

Noble, Stephanie M. (2015), personal correspondence.

ITEMS:1

1. Based on my experience, I will _____ less at this _____.
2. Based on my experience, I will not return to this _____.
3. If I could do it again, I would have _____ at a different _____.

-------

1. Noble (2015) confirmed that the scale was composed of five-point Likert-type items. The type of activity that the participant was engaging in should be stated in the first blanks of #1 and #3, e.g., shop, eat, exercise. All of the other blanks should be filled with a name for the type of facility the participant was in, e.g., store, restaurant, fitness center.
RECYCLING INTENTION

A person’s plan to engage in behaviors that support of a recycling program are measured with seven, seven-point items.

ORIGIN:

White, Simpson, and Argo (2014) used the scale in Study 3 and analysis was based on data from 240 undergraduate students. The scale was created by the authors (White 2015) and is strongly based on phrasings from other intention measures used by the lead author in previous research (White and Peloza 2009; White and Simpson 2013).

RELIABILITY:

The alpha for the scale was .865 (White, Simpson, and Argo 2014, p. 441).

VALIDITY:

White, Simpson, and Argo (2014) did not discuss the scale’s validity.

REFERENCES:

White, Katherine (2015), personal correspondence.


White, Katherine and Bonnie Simpson (2013), "When Do (and Don't) Normative Appeals Influence Sustainable Consumer Behaviors?" Journal of Marketing, 77 (2), 78-95.


ITEMS:

1. How likely are you to take part in _____’s recycling program?²
   Highly Unlikely / Highly Likely
2. How inclined are you to take part by recycling?
   Not Very Inclined / Highly Inclined
3. How willing are you to take part by recycling?
   Not Very Willing / Very Willing
4. To what degree do you intend to recycle in support of the recycling program? Not at all / Very much so
WILLINGNESS TO PURCHASE A PRODUCT AS A GIFT

Three, seven-point Likert-type items measure a consumer’s openness to the idea of purchasing a product by a company as a gift in a hypothetical situation. The product, the company, and for whom the gift is intended are not specified in the items themselves and must be provided elsewhere.

ORIGIN:

Fuchs, Schreier, and van Osselaer (2015) used the scale in Study 2 of the four discussed in their article. Analysis was apparently conducted with data collected from a final sample of 434 members of an Austrian consumer panel. Based on what was stated in the web appendix to the article, the scale and the rest of the study was phrased in German. The source of the scale itself was not identified.

RELIABILITY:

The internal consistency of the scale (Cronbach’s alpha) was .84 (Fuchs, Schreier, and van Osselaer 2015, p. 103).

VALIDITY:

The discriminant validity of all construct measures was examined using CFA (Fuchs, Schreier, and van Osselaer 2015, p. 103). Two different tests provided evidence in support of each scale’s discriminant validity.

COMMENTS:

Fuchs, Schreier, and van Osselaer (2015) viewed the scale as measuring purchase intention but the scale is not called that here. No explicit purchase intent is expressed in the items but merely expressing a willingness to purchase the product in a hypothetical situation.

REFERENCES:


ITEMS:

Would you buy a product of this firm as a gift for the intended gift recipient?

1. For this occasion, I would buy this product as a gift.
2. It is unlikely that I would buy a product of this firm as a gift. (r)
<table>
<thead>
<tr>
<th>Subject Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceptance: 3, 162, 280, 345</td>
</tr>
<tr>
<td>Accomplishment: 494, 499, 640</td>
</tr>
<tr>
<td>Activity: 28, 57, 62</td>
</tr>
<tr>
<td>Adoption: 55, 433-443</td>
</tr>
<tr>
<td>Advertising: 5-10, 22, 35-37, 42, 44-48, 57-68, 234, 238, 430, 446, 454, 630</td>
</tr>
<tr>
<td>Advice: (see Recommendation)</td>
</tr>
<tr>
<td>Aesthetics: 388, 557</td>
</tr>
<tr>
<td>Affect: 142, 313, 328, 336, 353, 455</td>
</tr>
<tr>
<td>Affordability: 118, 273, 529</td>
</tr>
<tr>
<td>Altruism: 12, 80-82, 330, 342 (see also Benevolence)</td>
</tr>
<tr>
<td>Anthropomorphism: 13-15, 263, 592</td>
</tr>
<tr>
<td>Anxiety: 17-19, 233, 280</td>
</tr>
<tr>
<td>Appearance: 263, 280, 486, 536, 544</td>
</tr>
<tr>
<td>Appreciation: 21, 245</td>
</tr>
<tr>
<td>Appropriateness: 89, 96, 215, 242, 337</td>
</tr>
<tr>
<td>Arousal: 24, 25, 217</td>
</tr>
<tr>
<td>Assertiveness: 151, 341</td>
</tr>
<tr>
<td>Association: 355, 377, 545, 554</td>
</tr>
<tr>
<td>Assortment: 107, 154, 165, 471, 525, 615</td>
</tr>
<tr>
<td>Atmospherics: 427, 557-559</td>
</tr>
<tr>
<td>Attachment: 29-31, 127, 351-355</td>
</tr>
<tr>
<td>Attention: 33-37, 227, 325, 616</td>
</tr>
<tr>
<td>Attitude: 38-40</td>
</tr>
<tr>
<td>Attractiveness: 58, 474, 544, 558-561</td>
</tr>
<tr>
<td>Attributions: 13-15</td>
</tr>
<tr>
<td>Authenticity: 109-111</td>
</tr>
<tr>
<td>Authority: 190, 613</td>
</tr>
<tr>
<td>Autonomy: 112, 174</td>
</tr>
<tr>
<td>Availability: 589-591, 630</td>
</tr>
<tr>
<td>Avoidance: 187, 346, 553</td>
</tr>
<tr>
<td>Awareness: 213, 461</td>
</tr>
<tr>
<td>Behavioral: 326, 408-410, 456</td>
</tr>
<tr>
<td>Beliefs: 457, 538, 564</td>
</tr>
<tr>
<td>Believability: (see Credibility)</td>
</tr>
<tr>
<td>Benefits: 5, 54-56, 443, 537, 567</td>
</tr>
<tr>
<td>Benevolence: 12, 155-156, 259, 462 (see also Altruism)</td>
</tr>
<tr>
<td>Budgeting: 198, 326, 529</td>
</tr>
<tr>
<td>Celebrity: 37, 75, 137</td>
</tr>
<tr>
<td>Certainty: 38-40, 416</td>
</tr>
<tr>
<td>Change: 230, 268, 350, 452</td>
</tr>
<tr>
<td>Charity: 135, 170, 193-197, 253, 254, 411-412, 449</td>
</tr>
<tr>
<td>Children: 239, 345-348, 458</td>
</tr>
<tr>
<td>Choice: 119, 219, 386, 405, 471, 480</td>
</tr>
<tr>
<td>Clarity: 71, 616</td>
</tr>
<tr>
<td>Clothing: 326, 411, 422</td>
</tr>
<tr>
<td>Cognition: 13, 331, 457</td>
</tr>
</tbody>
</table>
Ethnicity: 175, 225, 546
Evaluation: 231, 238, 399-404, 423, 548
Excitement: 24, 57
Exclusivity: 129, 556
Exercise: 284, 293
Expectations: 8, 79, 177, 189, 262, 418, 451, 551-552, 594
Expensive: 84, 118, 419, 435
Experiences: 33, 132, 240, 256, 344, 493-494, 524
Expertise: 228, 293
Failure: 254, 512, 533, 640
Fairness: 114, 229, 308, 375
Family: 549 (see also Children & Parents)
Fans: 101, 137, 304-307
Features: 5, 448
Feedback: 21, 381
Fear: 231-233
Financial: 236, 313, 439, 613
Fluency: 71, 618-620
Food: 85, 339-340, 417, 423, 475
Freedom: 112, 174, 405
Frequency: 240, 284
Friendly: 220, 342, 517, 539
Friends: 138, 155, 490, 540-543, 549, 635
Frustration: 246, 465, 533, 625
Fun: 25, 219, 584
Future: 46, 87, 177, 230, 588
Games: 101, 304-307, 636
Gender: 239, 258, 458
Gift: 89, 178, 241, 242, 628
Goals: 243, 461, 499
Groups: 162-163, 246-248, 260, 487-489
Guilt: 249-254
Happiness: 197, 255-256, 259, 578
Harmful: 277, 322, 495, 522, 538
Health: 28, 85, 257-258, 277, 285, 475, 538, 545, 596, 622
Hedonic: 532, 534
Helpfulness: 80, 144, 156, 279, 462, 467-468, 549
Home: 55, 435-442
Honesty: 598, 605-606
Hostility: 322, 465
Hotel: 82, 212, 319
Humor: 92, 228
Identification: 137, 142, 163, 175, 225, 265, 359, 546
Image: 37, 248, 446, 554
Importance: 54, 119, 257, 291, 297, 373, 383, 421, 451, 454-455, 516
Improvement: 496, 500
Impulsive: 198, 271-274
Influence: 363, 368, 613
Information: 61, 279, 378, 413, 467-468
Installation: 55, 435-442
Integrity: 206, 329
Intelligence: 202, 230, 282
Intensity: 66, 267, 318, 522, 621
Intention: 152, 284-288, 315, 319, 444, 527, 575, 623, 635, 638
Interaction: 19, 429, 506, 542, 548
Interesting: 7, 48, 291, 585
International: 146-148, 412
Intoxication: 51, 566
Intrusive: 289-290, 430
Involvement: 225, 291-307, 444, 506
Irritation: 44, 202, 289-290, 430
Justice: 114, 308-309, 375
Justification: 178, 337
Knowledge: 228, 293, 310-312, 504
Labels: 84, 104, 604
Leadership: 180, 363
Learning: 282, 504, 571
Legal: 73, 566
Lifestyle: 112, 285
Likeability: 43, 50, 89-90, 376, 587
Location: 146-149, 351, 425
Loss: 183, 204, 567
Love: 185, 317-318, 474, 579-582
Loyalty: 120-123, 319-321, 460
Manufacturer: 237 (see also Company & Production)
Materialism: 182, 324
Media: 53, 153 (see also Social Media)
Medical: 287, 596
Meaningful: (see Relevance)
Members: 265, 602
Memory: 228, 361
Message: 36, 200-204
Money: 182, 236, 270, 326, 553
Morality: 12, 53, 329-330, 343
Motivation: 215, 237, 243, 409, 449, 496
Needs: 270, 331-334, 477, 485, 510
Negotiation: 335, 484
Nervousness: 19, 233, 548
Newness: 338, 362
Norms: 174, 337, 594
Novelty: 275, 338, 532
Nutrition: 85, 33-340
Obligation: 172, 237, 449, 487
Opportunities: 87, 134
Optimism: 87, 262, 598
Organic: 339-340, 417
Orientation: 144, 449, 478, 502-513, 531-532
Ownership: 131, 310, 500
Packaging: 104, 222-223, 604
Parents: 324, 345-348
Parity: 125, 193
Patronage: 319, 349, 356, 463
Peacefulness: 132, 577
Perception: 33, 234, 267, 275, 617-621
Performance: 246, 390, 469, 487
Personal: 68, 150
Personality: 144, 180, 190, 210, 262, 268, 331, 350
Persuasion: 22, 40, 363
Place: 31, 164, 351-361, 425
Planning: 273, 529
Pleasure: 134, 255, 300
Policies: 73, 571
Popularity: 362, 539
Power: 182, 335, 363-369
Preference: 77, 126, 356, 370
Presentation: 227, 446
Prevention: 187, 285-287, 449, 596
Price: 103, 118, 372-377, 484, 611, 627
Pride: 127, 488, 583
Dr. Gordon C. Bruner II (Professor Emeritus, Southern Illinois University) received a B.B.A. and a M.S. in marketing from Texas A&M University. His Ph.D. is from the University of North Texas, with a major in marketing and a minor in music. It was during his doctoral work that he learned about scales, worked with them as he assisted his professors in their research, and eventually created scales of his own that were critical to his dissertation.

After several years of developing scales as part of his empirical research activities as a professor, Dr. Bruner realized the difficulty marketing researchers had in finding scales that had already been developed. Thus began the development of the first *Marketing Scales Handbook* at Southern Illinois University in the late 1980s with Dr. Paul Hensel. When that volume was published in 1992, it was the first book in the field of marketing to provide reviews of scales. Eventually, Dr. Bruner became the sole author of the series. The handbooks are now used by thousands of researchers in academia and industry around the world. Although the earliest volumes in the series are no longer available in print, the reviews of scales they contained having to do with consumer research can be found in revised form in the repository at MarketingScales.com. Indeed, the database is the largest collection of psychometrics that have been used in published marketing research, well over 3,700 at this time.

During his years in academia, Dr. Bruner’s primary empirical research streams were consumer problem recognition and technology acceptance. His research has been published in the *Journal of Marketing*, the *Journal of the Academy of Marketing Science*, the *Journal of Advertising Research*, the *Journal of Retailing*, *Psychology & Marketing*, the *Journal of Business Research*, as well as many other journals. Throughout his teaching career, his specialties were strategic promotion and consumer behavior.

Dr. Bruner has retired now from academia but remains active in reviewing scales as well as being a devoted husband, father, and grandfather. Additionally, he is an amateur musician, loving to write and record his own songs. Last, but not least, he is a devout Christian, an adherent of the faith though not the religion.