The Influence of Goal-Directed and Experiential Activities on Online Flow Experiences

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Recently, it has been proposed that creating compelling experiences in the distinctive consumption environment defined by the Internet depends on facilitating a state of flow. Although it has been established that consumers do, in fact, experience flow while using the Web, consumer researchers do not as yet have a comprehensive understanding of the specific activities during which consumers actually have these experiences.

One fruitful focus of research on online consumer experience has been on two distinct categories of consumption behavior—goal directed and experiential consumption behavior. Drawing distinctions between these behaviors for the Web may be particularly important because the experiential process is, for many individuals, as or even more important than the final instrumental result. However, the general and broad nature of flow measurement to date has precluded a precise investigation of flow during goal-directed versus experiential activities.

In this article, we explore this issue, investigating whether flow occurs during both experiential and goal-directed activities, if experiential and goal-directed flow states differ in terms of underlying constructs, and what the key characteristics are—based on prior theory—that define "types" of flow experiences reported on the Web. Our approach is to perform a series of quantitative analyses of qualitative descriptions of flow experiences provided by Web users collected in conjunction with the 10th GVU WWW User Survey. In contrast with previous research that suggests flow would be more likely to occur during recreational activities than task-oriented activities, we found more evidence of flow for task-oriented rather than experiential activities, although there is evidence flow occurs under both scenarios. As a final note, we argue that the role that goal-directed and experiential activities may play in facilitating the creation of compelling online environments may also be important in a broader consumer policy context.

The nature of consumer experience has been studied extensively in traditional offline settings (Havlena & Holbrook, 1986; Hirshman, 1984; Hirshman & Holbrook, 1982; Holbrook & Hirshman, 1982; Mano & Oliver, 1993; Unger & Kernan, 1983). One fruitful focus of research on consumer experience has been on two distinct categories of consumption behavior—goal-directed and experiential consumption behavior.

The contrast between goal-directed and experiential behavior has been a pervasive topic in consumer behavior research. Communication theorists, as one example, distinguish between instrumental and ritualized orientations to media (Li & Bukovac, 1999; Rubin, 1984; Rubin & Perse, 1987). At the most fundamental level, psychologists have proposed a variety of theories explaining how behavioral reactions are influenced both by cognition and affect (Berkowitz, 1993; Epstein, 1994; Leventhal, 1984; Leventhal, 1993; Isen, Shalk, Clark, & Karp, 1978; Shiv & Fedorikhin, 1999; Zajonc, 1980).

In marketing, the distinction between goal-directed and experiential behavior has long been formally noted. Indeed, it underlies the entire purchase/consumption process, beginning with the consumer constructs of extrinsic versus intrinsic motivation (Bloch & Richins, 1983; Celsi & Olson, 1988; Davis, Bagozzi, & Warshaw, 1992) and situational versus enduring
involvement (Bloch, Sherrell, & Ridgway, 1986; Richins & Root-Shaffer, 1988; Wolfinbarger & Gilly, 2001).

The consumer search process can be either directed or nondirected (Biehal & Chakravarti, 1982, 1983; Bloch et al., 1986), and the choice process can be goal-directed or oriented to navigational choices (Hoffman & Novak, 1996; Deci & Ryan, 1985). Not surprisingly, consumer attitudes have both hedonic as well as utilitarian components (Batra & Ahtola, 1990), and the distinction carries through to decision making (Pham, 1998), as well as satisfaction (Mano & Oliver, 1993).

The shopping process itself has been analyzed from the context of goal-directed versus experiential shopping behavior, both in traditional (Babin, Darden, & Griffin, 1994) as well as online (Wolfinbarger & Gilly, 2001) settings, often leading to a characterization of shopping as either “work” or “play” (Hammond, McWilliam, & Diaz, 1998; Wolfinbarger & Gilly, 2001). In addition, specific aspects of the shopping process, such as sales promotions (Chandon, Wansink, & Laurent, 2000), have been viewed from the perspective of utilitarian versus hedonic benefits. Compulsive shopping (O’Guinn & Faber, 1989) and impulse buys (Rook, 1987) have also been related to the distinction between experiential and goal-directed shopping behavior.

GOAL-DIRECTED VERSUS EXPERIENTIAL BEHAVIOR IN ONLINE ENVIRONMENTS

Clearly, consumer researchers have demonstrated the value in considering both goal-directed as well as experiential behavior when evaluating consumer experience in traditional, offline settings. More recently, researchers have begun to turn their attention to an investigation of these behaviors in online environments (Hoffman & Novak, 1996; Hoffman, Novak, & Schlosser, 2001; Novak, Hoffman, & Yung, 2000; Smith & Sivakumar, 2001; Wolfinbarger & Gilly, 2001).

Hoffman and Novak (1996) summarized the distinction between these two categories of behavior for the World Wide Web, a specific example of what they termed a “computer-mediated environment.” The differences are far-reaching (see Table 1), incorporating important consumer behavior issues such as involvement, search, decision making, consumer benefits, and motivation.

Drawing these distinctions between goal-directed and experiential behavior is particularly important in online environments, because the experiential process is, for many individuals, as or even more important than the final instrumental result (Hoffman & Novak, 1996).

FLOW CAN CREATE COMPELLING CONSUMER EXPERIENCES ONLINE

Recently, it has been proposed (Hoffman & Novak, 1996; Novak et al., 2000) that creating compelling experiences in this distinctive consumption environment depends on facilitating a state of flow (Csikszentmihalyi, 1977, 1990). Previous researchers (Csikszentmihalyi, 1990; Ghani, Supnick, & Rooney, 1991; Trevino & Webster, 1992; Webster, Trevino, & Ryan, 1993) have noted that flow is a useful construct for describing more general human–computer interactions. Hoffman and Novak (1996) defined flow as “the state occurring during network navigation which is: (a) characterized by a seamless sequence of responses facilitated by machine interactivity, (b) intrinsically enjoyable, (c) accompanied by a loss of self-consciousness, and (d) self-reinforcing” (p. X). Further, flow is facilitated by the perception of a balance between a consumer’s skills and challenges involved in an online interaction; further, both their skills and challenges must be above a critical threshold.

As a broad construct that relates to other constructs such as involvement, telepresence (Steuer, 1992), and playfulness, clear specification and measurement of the components of flow is necessary for systematic investigation of its role in online environments. To that end, in the context of general consumer usage of the Web, Hoffman and Novak (1996) identified and Novak et al. (2000) empirically measured and modeled a set of key constructs related to flow, including interactivity, involvement, focused attention, skill, control, challenge, arousal, telepresence, time distortion, and exploratory behavior. In addition to providing a theoretical understanding of what leads to flow experiences, these constructs can also be used to characterize flow experiences.

Although it has been established that consumers do, in fact, experience flow while interacting with computers (e.g., Csikszentmihalyi, 1990; Ghanani et al., 1991; Trevino & Webster, 1992; Chen, Wigand, & Nilan, 1999; Webster et al., 1993) and while using the Web (Novak et al., 2000), consumer researchers do not as yet have a comprehensive understanding of the specific activities during which consumers actually experience flow on the Web.

Novak et al. (2000) found that compelling online customer experiences were positively correlated with “fun, recreational and experiential uses of the Web” but negatively correlated with work-oriented activities. This suggests that flow online is

<table>
<thead>
<tr>
<th>Table 1: Distinctions Between Goal-Directed and Experiential Behavior</th>
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</thead>
<tbody>
<tr>
<td><strong>Goal-Directed</strong></td>
</tr>
<tr>
<td>Extrinsic motivation</td>
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<tr>
<td>Instrumental orientation</td>
</tr>
<tr>
<td>Situational involvement</td>
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<tr>
<td>Utilitarian benefits/value</td>
</tr>
<tr>
<td>Directed (prepurchase) search</td>
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<td>Goal-directed choice</td>
</tr>
<tr>
<td>Cognitive</td>
</tr>
<tr>
<td>Work</td>
</tr>
<tr>
<td>Planned purchases; repurchasing</td>
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</table>
more likely to be associated with play activities than work or task-oriented activities. However, the general and broad nature of flow measurement in that study precluded a more precise investigation of flow during goal-directed versus experiential activities.

To our knowledge, research has yet to explore this and other important issues, including (a) whether flow occurs during both experiential and goal-directed activities, (b) whether experiential and goal-directed flow states differ in terms of underlying constructs, and (c) the key characteristics—based on prior theory—that define “types” of flow experiences reported on the Web.

Some research has investigated the types of situations in which consumers experience flow on the Web (Chen et al., 1999). However, this research has classified the activities associated with flow during Web use into functional categories, that is, researching on the Web, information retrieval, participating in discussion groups, e-mail, creating Web pages, playing games, and chatting. There is a lack of understanding of whether flow experiences differ in terms of the values of the underlying constructs that serve to define flow.

In this article, we address these issues by performing a series of quantitative analyses of qualitative descriptions of flow experiences provided by Web users. The following research propositions specify the expected relationships:

- The situations in which flow is experienced on the Web is related to the respondents’ perception of their skill using the Web, the challenge the Web provides them, the importance of the Web to them, and their desire for curiosity/novelty.
- The degree or extent to which respondents say they experience flow on the Web will not be related to specific examples of flow provided by respondents.
- There will be a wide variety of ways in which respondents experience flow on the Web. At the most basic level, some respondents will provide examples of experiential flow, whereas others will provide examples of goal-directed flow. Whether a respondent provides an experiential or goal-directed example of flow will be related to whether the respondent, in general, uses the Web for goal-directed versus experiential uses.

DATA AND CODING

Data

Data were collected in conjunction with the 10th WWW User Survey (GVU, 1998), that ran from October 10, 1998 through December 15, 1998. As the GVU WWW User Survey employs non-probabilistic sampling and self-selection (GVU, 1997), it is not representative of the general population of Web users. Comparison with population projectable surveys of Web usage (e.g., Hoffman, Kalsbeek, & Novak, 1996) shows that the GVU User Survey sample contains more long-term, sophisticated Web users than the general population.

Participants were solicited using both online and traditional media. These included announcements placed on Internet-related newsgroups, banner ads placed on specific pages on high-exposure sites (e.g., Yahoo, Netscape, etc.), banner ads randomly rotated through high-exposure sites (e.g., Webcrawler, etc.), announcements made to the www-surveying mailing list maintained by GVU, and announcements made in the popular press. After the 2-month survey period, a total of 5,206 respondents filled out at least one of the nine surveys that comprised the 10th WWW User Survey.

Of these 5,206 respondents, 1,312 elected to fill out our survey on “Flow,” which contained items dealing with the customer experience of using the Web (Hoffman & Novak, 1996; Novak et al., 2000). This Flow survey was designed so that the survey submission was accepted only if all questions were answered; thus, there is no item-level nonresponse.

Coding

Of the 1,312 respondents, 588 (44.8%) provided answers to the following three-part open-ended question:

1. Can you recall a time when you experienced flow when using the Web, where your flow experience could not be identified with visiting one specific Web site? For example, some consumers have reported experiencing flow while searching a wide variety of sites when planning a vacation, designing their own Web pages, or simply “fooling around.” If so, please tell us what you were doing on the Web when you had this flow experience.

2. Please tell us more about how you felt during this flow experience while using the Web.

3. Please describe what you think it is that contributed to your experiencing flow while using the Web.

Two examples of the three part response verbatims are as follows:

Example One
I had some spare time after class, so I got onto the Web and just cruised around looking for interesting things. I quite like to do a random search based on picking words out of nowhere and combining them to see what kind of things I can find. I did this and then just followed links and ended up spending three or more hours just playing around. This doesn’t happen very often, usually I log on to do something in particular. I guess I was just curious. I wanted to see where things lead, where I could get from a seemingly random search query. The links were interesting. I couldn’t really predict the content of where I was going to, but I found some cool stuff.
Example Two
Sometimes I feel this kind of flow when I’m looking for reci-

pies. I might start out looking for something specific, but when all these other great recipes pop up, I can’t resist them!

I felt a lot of excitement that these recipes are just out there, that you don’t have to pay for them, and that I could just go down to my kitchen and have a great meal. It gives me a feeling of excitement and power and it gives me lots of ideas of how to treat my family and friends.

It really helps to have a fast computer. And an abundance of information so you don’t get through everything—the feeling that you can just keep going.

Two independent raters (rater “K” and rater “Y”) were in-

structed to take each three-part response verbatim in its en-

tirety and consider which of a list of 10 codes applied to that verbatim. The 10 codes were developed through an it-

erative process beginning with extracting constructs from the theoretical foundations provided by earlier research dis-

cussing concepts related to flow, different likely flow ex-


Additional potential construct codes were created to re-

present phenomena in the data themselves. The resulting list of 35 possible content codes, from the theoretical and em-

pirical sources, was pruned for synonyms so as to reduce redundancy.1 This reduced set of 10 codes were pretested by the co-authors on a short list of 10 verbatims. These 10 verbatims and the co-authors’ codes served as “training” verbatims that the raters learned on, before proceeding to code new verbatim data.

Each verbatim could potentially have several codes. The two raters were first given a trial set of 25 verbatims. After this trial set was inspected for accuracy by Adam Duha- chek, the full set of verbatims was made available to the raters for coding, along with a set of sample question-

naires coded by Adam Duha- chek. The sample question-

naires demonstrated examples of multiple coded responses to single questions and, in some cases, multiple coded re-

ponses within individual sentences of a particular open-ended question response, and could be used as a guide for coding the full data sample.

The actual codes and coding instructions are presented in Table 2.

Percentage agreement between the two raters ranged from a high of 94.0% to a low of 62.8%, with an average of 76.7% agreement over all 10 codes. Complete results are shown in Table 3.

Verbatims such as those used in this study will be rela-

tively difficult to achieve consensus on. We performed a

multiple correspondence analysis of the 10 binary variables each for rater K and rater Y. This plot of category quantifications for the “yes” category for each rater is shown in Figure 1, with the categories for raters K and Y connected with a solid line. The MCA provides graphical evidence of the very strong overall similarity between the two raters’ judgments.

Given that the agreement between the raters was rela-

tively high, in percentage terms, we are confident that the experiences described by the respondents are captured by the coding. However, with such a large sample size, even a small percentage of disagreement translates into many re-

sponses in an absolute number, which, to achieve 100% rater agreement, would have required extensive revisiting on the part of the coders. Hence, we created a sum, whereby rater K’s 10 categories with values 0 and 1 were added to rater Y’s 10 categories, respectively, also with val-

ues 0 and 1. The resulting sums provide scales, one for each of the 10 coded categories, each of which ranges from 0 (both raters agreed that the coded theme was not repre-

sented by the respondent’s expressed thoughts) to 2 (both raters agreed that the coded theme was indeed present in the response) with an intermediate score of 1 (one rater identified the code as present, the other rater thought the code absent). Hence, the end scores, 0 and 2, represent intrarater agreement, and the intermediate score of 1 sug-

gests a “weaker” presence of the coded theme (i.e., only one rater saw its evidence).

We believe this 3-point scale represents a reasonable ap-

proach. In the first place, disagreements among raters will only serve to attenuate results rather than create false positives, so it is unlikely our coding will create relationships that do not exist. Second, we expect that rater disagreements relate more to errors of omission, rather than errors of misclassification, so that code 1, representing an error of omission, reflects a coding situation that is less readily appar-

ent than a “2” code where both raters assigned the same code.

ANALYSIS

Creating Flow Construct Composites

Besides collecting the verbatims describing flow experiences on the Web, we also collected a series of 17 survey items mea-

suring flow and related constructs. These items, shown in Ta-

ble 4, were measured on 9-point rating scales and are a subset of the items used by Novak et al. (2000). Four additional items were included (Items 13, 15, 16 and 17) to capture the distinction between “experiential versus goal-directed” uses of the Web.

These items were grouped into six a priori categories de-

fining the flow experience (flow, experiential vs. goal-di-

rected, skill, challenge, novelty, and importance) on the basis of previous research. Results of a principal components anal-

ysis with a Promax rotation allowing for correlated factors

1Reducing the 35 codes down to a lesser number of supercodes is analo-
gous to conducting a factor analysis, but on qualitative data.
TABLE 2
Ten Codes and Detailed Coding Instructions for the Response Verbatims

CODING INSTRUCTIONS: The codes needed for these questions are listed below, along with extracted examples. Remember, individual responses may represent more than one code. The letters in boldface preceding the code description should be used to connote the presence of that particular code in a given response. Try to be as literal as possible in fitting responses to codes. The study's hypotheses have not been revealed in order to preserve the integrity of coding, so try not to infer the presence of particular codes, only use information explicitly stated. Please read *slowly and carefully*!

**Goal-oriented (G):** This type of Internet encounter occurs when the respondent has a distinct or identifiable purpose for their browsing. Responses typical of this type of Web experience are:
- “Looking at pictures of Mars on the NASA Web site.”
- “Identifying orchid species, their growing conditions, etc.”
- “Making travel reservations.”

**Get Information (I):** This refers to the respondents collection and learning of new information. It is no secret that the Internet serves as an excellent educational tool, and many respondents report using it for this purpose.
- “I was looking up information on plants.”
- “I was reading movie reviews and newspaper articles.”

**Involvement (V):** This category refers to the relative level of concentration and interest aroused by the Web experience. Examples of this type of response:
- “I was completely absorbed by the site.”
- “I was very involved in my searching.”
- “I often feel totally immersed when browsing.”

**Disorientation (D):** This refers to the various loss in perceptual processing people often experience while on the Internet. There are two primary types typically reported—time and space distortion. Some times, respondents do not differentiate between types, or report both types. Examples of each:
- “Time disappears when I visit this site.”
- “I tuned out the TV, noise from outside.”
- “I lost myself in the site.”
- “Concentrating very hard on the task at hand.”

**Positive Affect (POS):** These are thoughts that are positive, indicating an enjoyable experience. Typical positive responses were:
- “Interesting.”
- “Fun and exciting.”
- “I was having a great time on XYZ’s site.”

**Negative Affect (NEG):** These are generally negative responses, reflecting unenjoyable experiences. These emotions occur much more infrequently among our sample than positive responses. Responses typical of this state are:
- “I was bored.”
- “I was frustrated/angered/incensed by the content of the sites.”

**Process (P):** This measure refers to the respondent’s perception that his or her experience is productive (i.e., things are going well). Examples:
- “I found what I was looking for.”
- “The Web site was well designed.”

**Experiential (E):** Experiential Internet encounters are characterized by a nonspecificity of task. That is, the respondent is “surfing” or has no preconceived purpose for their Internet experience. Examples of responses listed in the data:
- “Reading the news.”
- “Surfing” or “browsing”
- “Looking at various links.”

**Abilities (A):** This category refers to the perceived degree of skill and challenge required to engage in the experience. Often times, respondents report that their Web experience challenges them above and beyond normal levels. Positive Web experiences are often characterized by a relative balance between skills and challenges required (challenging, yet the respondent maintains “control” of the situation). Examples of this found in the data are:
- “I was in full control of the situation.”
- “Pleasure of achieving small goals and working towards greater goals.”
- “Joy from discovering my own abilities and solving problems.”

**Expect to Share or Disseminate Information (S):** In some instances, a distinction can be made by whether the respondent used the Web to create or disseminate information. This is the obverse of the Get Information category. Examples:
- “I was creating a homepage.”
- “I was working on Web design.”
- “I found some information on new car ratings that I planned on sharing with my friend.”
were consistent with our a priori groupings. We therefore constructed six composite variables as summed scores. All coefficient alphas for these six summed composites, indicated in Table 5, were in the acceptable level and ranged from a low of 0.66 to a high of 0.91.

Table 6 shows correlations among the composite variables (upper diagonal), correlations among the rotated Promax factors (lower diagonal), and correlations between the composite variables and the Promax factors (diagonal). As intercorrelations among the summed composites very closely mirror intercorrelations among the rotated Promax factors, and we use the simpler summed composites in all subsequent analyses.

Predicting the Presence of a General Flow Verbatim From the Flow Constructs

As 44.8% of our respondents provided a verbatim description of a flow experience, to what extent do the six composite variables for the six “Flow Constructs” predict whether a respondent provided a verbatim? A discriminant analysis used the six composite variables to predict which of the 1,312 respondents provided a general flow verbatim. Wilk’s Lambda for the test of the canonical discriminant function used to predict the binary variable for presence/absence of flow verbatim was significant \( p < .0001 \), with a canonical correlation of .540.

The standardized canonical discriminant functions, shown in Table 7, indicate that the majority of the prediction, as would be expected, is due to the first flow composite. However, skill, challenge, novelty, and importance composites all positively relate to the presence of a flow verbatim. In contrast with expectations from prior research,

| TABLE 3 |
| Rater Agreement |

<table>
<thead>
<tr>
<th>Code</th>
<th>% Agreement</th>
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<tbody>
<tr>
<td>G (goal)</td>
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<tr>
<td>I (info)</td>
<td>65.8</td>
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<tr>
<td>V (involvement)</td>
<td>72.4</td>
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<td>D (disorient)</td>
<td>85.7</td>
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<tr>
<td>POS (positive affect)</td>
<td>66.3</td>
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<tr>
<td>NEG (negative affect)</td>
<td>88.8</td>
</tr>
<tr>
<td>P (process)</td>
<td>74.9</td>
</tr>
<tr>
<td>E (experiential)</td>
<td>81.4</td>
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<tr>
<td>A (abilities)</td>
<td>75.1</td>
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<tr>
<td>S (share info)</td>
<td>94.0</td>
</tr>
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| TABLE 4 |
| Pattern Matrix from a Principal Components Analysis of the 17 Flow Survey Items |

<table>
<thead>
<tr>
<th>Component</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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</tbody>
</table>

respondents tending to use the Web for experiential use were less likely to provide a flow verbatim than respondents using the Web for goal-directed purposes.

Classification results were quite good, with 73.2% of the respondents with a verbatim present correctly classified, as well as 72.6% of the respondents with a verbatim absent correctly classified. Therefore, respondents’ general beliefs about their Web experience are strongly related to the likelihood the respondent will provide a verbatim example of a flow experience. We next examine the relationship of these general beliefs to the nature of the verbatim that was provided.

Relationship of Composite Variables With Verbatim Codes

Table 8 presents correlations of the six flow composite variables with the summed (i.e., 0/1/2) coding for each of the 10 flow codes. Correlations are fairly low, as expected. This is because we are correlating respondents’ stated tendencies for experiencing flow, level of skill, challenge, and so on while using the Web in general with codes assigned to verbatims that describe a single, specific Web experience. If respondents were to describe a wider range of flow experiences, presumably we would be able to capture and code a wider range of responses that might relate more strongly to general tendencies. Nevertheless, the significant correlations in Table 8 provide a consistent interpretation.

We note that respondents who, in general, state they use the Web more for experiential than goal-directed activities produce verbatims more likely to be coded for disorientation and experiential content, and less likely to be coded for getting information. Respondents who feel they have relatively high skill using the Web are more likely to produce verbatims coded for positive affect, process, and expecting to share information. Respondents who are relatively high on novelty are more likely to have verbatims coded for experiential and ability. And respondents for whom the Web is important produce verbatims high in positive affect, process, abilities, and with expectation to share information. We expect low correlations for the flow scale because all 588 respondents on
whom the correlations are based have provided a flow verbatim, and we would expect these respondents to be relatively higher on flow. Thus there is reduced variability on the flow dimension for this subset of respondents.

Flow Segmentation

We next sought to determine if there were systematic differences in the types of flow examples provided by respondents. To do this, we performed a K-means cluster analysis of the 588 verbatims, based on the 0/1/2 summed rater scores on the ten codes. Table 9 summarizes results for the 2 through 10 cluster solutions, showing the eta-squared (proportion of variance explained) predicting each cluster solution from the 10 codes. Six through eight clusters, shaded in Table 9 shows a good compromise between parsimony, minimum number of observations in a cluster, and explanatory ability.

Table 10 reports p values for analyses of variance with the 10 cluster solutions versus the six Flow construct composite variables. Note that the factors were not used to determine the clusters and thus the clusters can be tested to see if they are significantly different on each factor composite variable.

From Table 10 it is apparent that only in three cluster solutions (for 3, 4, and 8 clusters in Table 9, columns 6 through 8) are there significant differences among clusters on the means of at least three of the composite variables. Note also that as the number of factors increases, the degrees of freedom between groups increase and it becomes more difficult to achieve significant results. Combining Tables 9 and 10 we conclude that the 8 cluster solution is useful, both in terms of describing differences in the ten rater codes used to define the clusters (i.e., Table 9), and also in terms of predicting differences among the six flow composite variables (i.e., Table 10).

Table 11 shows the group means on the six composite variables for clusters from the eight cluster solution. The summed 0/1/2 codes have been scaled from zero to one (i.e., simply divided by two), that provides a simpler interpretation of the proportion of times verbatims in the cluster were assigned a code by one of the two raters.

### TABLE 8
Correlations of Flow Verbatim Codes With Flow Construct Composites

<table>
<thead>
<tr>
<th>Code</th>
<th>(1) Flow</th>
<th>(2) Experiential vs. Goal-Directed</th>
<th>(3) Skill</th>
<th>(4) Challenge</th>
<th>(5) Novelty</th>
<th>(6) Importance</th>
</tr>
</thead>
<tbody>
<tr>
<td>G (goal)</td>
<td>-.073</td>
<td>-.030</td>
<td>-.046</td>
<td>-.048</td>
<td>-.072</td>
<td>-.055</td>
</tr>
<tr>
<td>I (info)</td>
<td>-.027</td>
<td>-.115**</td>
<td>.010</td>
<td>-.074</td>
<td>-.060</td>
<td>.017</td>
</tr>
<tr>
<td>V (involvement)</td>
<td>.023</td>
<td>.040</td>
<td>.009</td>
<td>.007</td>
<td>-.004</td>
<td>-.018</td>
</tr>
<tr>
<td>D (disorient)</td>
<td>.061</td>
<td>.093*</td>
<td>.025</td>
<td>.009</td>
<td>.048</td>
<td>-.037</td>
</tr>
<tr>
<td>POS (positive affect)</td>
<td>.057</td>
<td>-.054</td>
<td>.109**</td>
<td>.033</td>
<td>.030</td>
<td>.127**</td>
</tr>
<tr>
<td>NEG (negative affect)</td>
<td>.023</td>
<td>-.055</td>
<td>.021</td>
<td>.050</td>
<td>-.060</td>
<td>-.077</td>
</tr>
<tr>
<td>P (process)</td>
<td>.051</td>
<td>-.066</td>
<td>.121**</td>
<td>.066</td>
<td>.030</td>
<td>.116**</td>
</tr>
<tr>
<td>E (experiential)</td>
<td>.065</td>
<td>.172**</td>
<td>-.014</td>
<td>.087*</td>
<td>.132**</td>
<td>.013</td>
</tr>
<tr>
<td>A (abilities)</td>
<td>.043</td>
<td>-.014</td>
<td>-.015</td>
<td>.074</td>
<td>.079</td>
<td>.094*</td>
</tr>
<tr>
<td>S (share info)</td>
<td>-.077</td>
<td>-.041</td>
<td>.117**</td>
<td>-.047</td>
<td>.027</td>
<td>.091*</td>
</tr>
</tbody>
</table>

*Correlation is significant at the .05 level (two-tailed). **Correlation is significant at the .01 level (two-tailed).

### TABLE 9
Eta-Squared for General Codes With 2 Through 10 Cluster Solutions

<table>
<thead>
<tr>
<th>Code</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>G (goal)</td>
<td>.602</td>
<td>.473</td>
<td>.471</td>
<td>.546</td>
<td>.527</td>
<td>.574</td>
<td>.512</td>
<td>.557</td>
<td>.582</td>
</tr>
<tr>
<td>I (info)</td>
<td>.566</td>
<td>.484</td>
<td>.440</td>
<td>.432</td>
<td>.344</td>
<td>.418</td>
<td>.451</td>
<td>.461</td>
<td>.477</td>
</tr>
<tr>
<td>V (involvement)</td>
<td>.005</td>
<td>.102</td>
<td>.141</td>
<td>.303</td>
<td>.526</td>
<td>.412</td>
<td>.462</td>
<td>.530</td>
<td>.443</td>
</tr>
<tr>
<td>D (disorient)</td>
<td>.002</td>
<td>.791</td>
<td>.727</td>
<td>.449</td>
<td>.707</td>
<td>.729</td>
<td>.757</td>
<td>.736</td>
<td>.763</td>
</tr>
<tr>
<td>POS (positive affect)</td>
<td>.077</td>
<td>.043</td>
<td>.056</td>
<td>.255</td>
<td>.239</td>
<td>.291</td>
<td>.391</td>
<td>.217</td>
<td>.471</td>
</tr>
<tr>
<td>NEG (negative affect)</td>
<td>.001</td>
<td>.010</td>
<td>.008</td>
<td>.013</td>
<td>.007</td>
<td>.035</td>
<td>.022</td>
<td>.335</td>
<td>.074</td>
</tr>
<tr>
<td>P (process)</td>
<td>.019</td>
<td>.019</td>
<td>.044</td>
<td>.098</td>
<td>.101</td>
<td>.198</td>
<td>.122</td>
<td>.158</td>
<td>.219</td>
</tr>
<tr>
<td>E (experiential)</td>
<td>.082</td>
<td>.073</td>
<td>.081</td>
<td>.454</td>
<td>.335</td>
<td>.352</td>
<td>.546</td>
<td>.471</td>
<td>.575</td>
</tr>
<tr>
<td>A (abilities)</td>
<td>.007</td>
<td>.012</td>
<td>.022</td>
<td>.018</td>
<td>.034</td>
<td>.047</td>
<td>.072</td>
<td>.040</td>
<td>.097</td>
</tr>
<tr>
<td>S (share info)</td>
<td>.030</td>
<td>.031</td>
<td>.833</td>
<td>.830</td>
<td>.827</td>
<td>.737</td>
<td>.771</td>
<td>.814</td>
<td>.753</td>
</tr>
<tr>
<td>M eta-squared</td>
<td>.1391</td>
<td>.2038</td>
<td>.2823</td>
<td>.3398</td>
<td>.3647</td>
<td>.3793</td>
<td>.4106</td>
<td>.4319</td>
<td>.4454</td>
</tr>
</tbody>
</table>

Minimum cluster size 276 179 65 63 59 34 49 15 25
To provide a richer understanding of these eight clusters, two “exemplar verbatims” are presented for each cluster in Table 12. These verbatims are observations that have a relatively small distance from the cluster center. After inspecting the pattern of cluster means from Table 11, the exemplar verbatims in Table 12, and additional verbatims from other observations near the cluster centers, we were able to interpret the eight clusters as follows. We have labeled the clusters with these interpretations at the bottom of Table 11.

Cluster 1: In the zone (goal-directed, involved Web use in which telepresence was experienced)

Cluster 2: In charge (experiential Web use where the respondent felt in control)

Cluster 3: Ambiguous (relatively few codes were coded for these verbatims, many represent respondents who did not provide much information)

Cluster 4: Content lovers (very involved with specific content)

Cluster 5: Out of body (experiential Web use in which telepresence was experienced)

Cluster 6: Builders (creation of Web sites)

Cluster 7: Goal-directed (goal-directed information search)

Cluster 8: Feel good (tend to be goal-directed uses, respondent felt good about the experience, in particular the process)

Table 13 shows means on the eight clusters for each of the six flow construct composite variables and provides a few additional insights into differences among the eight clusters. The four composite variables (1, 2, 4, and 6) on which there were significant differences in cluster means (from Table 10) are in bold. We compare means that are relatively high and low on these four composites to see if respondents who provide different examples of flow differ in terms of their general self-reported levels of flow and related constructs.

We find the following. First, respondents in clusters (2) In charge, (5) Out of body, and (8) Feel good are more likely to experience flow in general, whereas respondents in clusters (6) Builders and (7) Goal-directed were less likely. When asked to provide an example of a flow experience, the nature of the example provided relates to the general degree to which respondents experience flow. Second, respondents in clusters (2) In charge and (5) Out of body are more likely to use the Web, in general, for experiential purposes, whereas respondents in cluster (7) Goal-directed are less likely. Third, respondents in cluster (2) In charge are more likely to find the Web, in general, to be challenging, whereas respondents in cluster (7) Goal-directed are less likely. Finally, respondents in clusters (2) In charge, (6) Builders and (8) Feel good are more likely to find the Web, in general, to be important, whereas those in cluster (5) Out of body are less likely.
Q6: Can you recall a time where you experienced flow when using the Web? If so, please tell us what you were doing on the Web when you had this flow experience.
Q7: Please tell us more about how you felt during this flow experience while using the Web.
Q8: Please describe what you think it is that contributed to your experiencing flow while using the Web.

**General cluster 1: “In the zone”**
Q6) Primarily, it happens when I am researching products for reports that I write at work.
Q7) Totally disconnected—almost like my body did not exist, hands moved independently, info went directly to brain bypassing eyes, etc.
Q8) Quiet environment, fast (for once!) response times from Web, totally focused on task.
Q6) When I do genealogy using the Web I sometimes feel that I am in flow. I use so many sites I can’t remember an exact on.
Q7) I was just in a world of my own and time goes by so fast that I am not aware of what time it is.
Q8) I think it happens when I am in total concentration in a site and no outside elements can enter my thoughts.

**General cluster 2: “Hunters”**
Q6) Using search engines. You are looking for something special, you end up in a rhythm of click, scan, back page until you hit just what your looking for or you find something totally unexpected.
Q7) Euphoric, empowered.
Q8) I am a seeker. I quest for certain knowledge. The power of the Web to locate most anything you want can take over. You become so riveted to what you are doing that everything else seems less important until you find what you seek.
Q6) I might read erotic stories. I might surf a bunch of pages Alta Vista gave me on infrared capable camcorders.
Q7) There is a hint of euphoria, barely observable. Most of the time you are so involved with what you are doing that you notice there was a feeling only once it’s gone.
Q8) Maybe all it takes is the fact that you were reading in an Active Manner for an extended time. Reading a book is passive by comparison. Maybe this is the closest we get to hunting?!

**General cluster 3: (Ambiguous)**
Q6) Chat rooms, chatting at the speed of light, virtual conversation.
Q7) The quantum of human emotions were there.
Q8) Knowing the person for a while mainly.
Q6) Travel.
Q7) Euphoric.
Q8) Daydreaming.

**General cluster 4: “Content lovers”**
Q6) Look for and at net.art works.
Q7) Focused, undistracted.
Q8) Focusing in on the screen; the content is fulfilling.
Q6) I was looking for wedding dresses.
Q7) Engrossed.
Q8) There are THOUSANDS of dresses to look through on the Internet ... I had to be engrossed in order to get through them.

**General cluster 5: “Out of body”**
Q6) Most of time, when I am exploring a specific Web site that has a lot of interesting elements and pages available. So I am just clicking and looking.
Q7) Connected to the Web site—background noise reduced to nothing. Intrigued.
Q8) I like following the “threads” to new places on the Web, so it is easy to get lost in the Web and out of real time experience.
Q6) Random surfing, simply going where the links take me. Lateral surfing.
Q7) Everything on the outside falls away, noise becomes wallpaper, and I hyperfocus on the areas I’m surfing.
Q8) It helps if I’m tired, in a relaxed state of mind, especially after surfing for two or three hours. Late at night is good, with high access speeds.

**General cluster 6: “Builders”**
Q6) Designing Web pages and creating graphics—various illustrations to use on that page—as well as learning html code at the same time.
Q7) Complete focus on the task at hand—suspension of time—not aware of how much time is passing.
Q8) The creating process—learning something new while accessing different mediums.
Q6) Working on my own Web sites, immersed in the design process.
Q7) I am able to focus my attention on or off the Web. I usually don’t get immersed in a project, but occasionally it’s the best way to get something done.
Q8) Just the need to complete a task, and with a good workflow going.

**General cluster 7: “Goal directed”**
Q6) Looking for movie times and a map of the Chicago metro area.
Q7) I just got caught up in different pages, finally ending up at a museum in Seattle’s Web page.
Q8) The variety of links.
Q6) Finding out the latest news about Apple Computer and the Macintosh.
Q7) Good. Captivated.
Q8) Interest in what was being discussed.

(continued)
Recent consumer research has demonstrated that creating flow experiences for consumers may be important in creating compelling online environments. Our analysis shows that respondents’ general beliefs about their Web experience are strongly related to the likelihood the respondent will provide response verbatim of flow experiences. In contrast with expectations from prior research, respondents tending to use the Web for experiential use were less likely to provide a flow verbatim than respondents using the Web for goal-directed purposes.

Table 12 (Continued)

<table>
<thead>
<tr>
<th>General cluster 8: “Feel good”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q6) When doing a search for information about New York nightlife during the golden era (’78–’88) of “clubbing.”</td>
</tr>
<tr>
<td>Q7) There was great excitement and satisfaction in being able to experience a place and time which I was unable to in reality, but had always wished to.</td>
</tr>
<tr>
<td>Q8) Coming upon various images and descriptions of people that I never actually knew, but had long wondered about.</td>
</tr>
<tr>
<td>Q6) Sometimes I feel this kind of flow when I’m looking for recipes. I might start out looking for something specific, but when all these other great recipes pop up, I can’t resist them!</td>
</tr>
<tr>
<td>Q7) I feel a lot of excitement that these recipes are just out there, that you don’t have to pay for them, and that I could just go down to my kitchen and have a great mean. It gives me a feeling of excitement and power and it gives me lots of ideas.</td>
</tr>
<tr>
<td>Q8) It really helps to have a fast computer. And an abundance of information so you don’t get through everything—the feeling that you can just keep going.</td>
</tr>
</tbody>
</table>

Table 13

Means of 8 Clusters on Standardized (Within n = 588) Flow Composites

<table>
<thead>
<tr>
<th>Standardized Composite Variable</th>
<th>1&lt;sup&gt;a&lt;/sup&gt;</th>
<th>2&lt;sup&gt;b&lt;/sup&gt;</th>
<th>3&lt;sup&gt;c&lt;/sup&gt;</th>
<th>4&lt;sup&gt;d&lt;/sup&gt;</th>
<th>5&lt;sup&gt;e&lt;/sup&gt;</th>
<th>6&lt;sup&gt;f&lt;/sup&gt;</th>
<th>7&lt;sup&gt;g&lt;/sup&gt;</th>
<th>8&lt;sup&gt;h&lt;/sup&gt;</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Flow</td>
<td>.01</td>
<td>.15</td>
<td>-.04</td>
<td>.11</td>
<td>.17</td>
<td>-.31</td>
<td>-.23</td>
<td>.15</td>
<td>.040</td>
</tr>
<tr>
<td>2-Experiential</td>
<td>.15</td>
<td>.28</td>
<td>-.09</td>
<td>-.05</td>
<td>.29</td>
<td>-.08</td>
<td>-.27</td>
<td>-.09</td>
<td>.010</td>
</tr>
<tr>
<td>3-Skill</td>
<td>-.11</td>
<td>-.15</td>
<td>-.02</td>
<td>-.12</td>
<td>.12</td>
<td>.31</td>
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<td>.09</td>
<td>.212</td>
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<tr>
<td>4-Challenge</td>
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<td>-.08</td>
<td>.20</td>
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<td>-.12</td>
<td>-.24</td>
<td>.15</td>
<td>.014</td>
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<tr>
<td>5-Novelty</td>
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<td>.29</td>
<td>-.01</td>
<td>-.13</td>
<td>.11</td>
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<td>6-Importance</td>
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<td>.22</td>
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<td>.001</td>
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<td>In the zone</td>
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<td></td>
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<td>In charge</td>
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<td></td>
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<td>Ambiguous</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Content lovers</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<td>Out of body</td>
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<td></td>
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<td></td>
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<tr>
<td>Goal-directed</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Feel good</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup>n = 88. <sup>b</sup>n = 49. <sup>c</sup>n = 108. <sup>d</sup>n = 89. <sup>e</sup>n = 58. <sup>f</sup>n = 50. <sup>g</sup>n = 79. <sup>h</sup>n = 67.

**DISCUSSION AND CONCLUSIONS**

The relative importance of antecedents of flow such as skill, challenge, involvement, focused attention, and telepresence may well differ across rational versus experiential processing modes.

The response verbatims were best described by eight clusters that revealed that flow experiences could be distinguished according to different types of goal-directed versus experiential activities. Table 14, adapted from Hoffman and Novak (1996), shows that the flow clusters (excluding the third cluster) can be characterized by situational versus enduring involvement, as well as by the object of involvement (goal/process vs. product/content). In the context of differentiating consumer search motives, Hoffman and Novak (1996) characterized cell 1 as “task completion,” cell 2 as “recreation,” cell 3 as “prepurchase deliberation,” and cell 4 as “opinion leadership.” Although not all of our flow examples relate to consumer search, it is important to note that flow on the Web occurs across a broad range of ways that consumers are involved with goals, processes, products, and content.

There are several limitations in this research. Using response verbatims meant that it was relatively difficult to achieve consensus on the codings. Nevertheless, our analysis showed that the two raters’ judgments exhibited very strong overall similarity. In addition, our 3-point sum scales of interrater agreement is a conservative approach, because disagreements among raters would only attenuate results, rather than create false positives. Thus, we are confident that our coding approach did not create relationships that do not exist.
Because we related respondents’ general flow tendencies with a single, specific Web experience, future research should have respondents describe a wider range of flow experiences under a variety of conditions. Such extensions would presumably lead to an even wider range of responses. Researchers have begun to explore this. Smith and Sivakumar (2001) recently proposed a contingency model of flow-induced shopping behaviors in which flow intensity varies according to whether the behavior involves browsing, one-time purchase, or repeat purchase.

Exploring the role that goal-directed and experiential activities play in facilitating the creation of compelling online environments may also be important in a broader consumer policy context. Csikzentmihalyi (2000) noted rather dramatically, that if the rest of the world’s population was to develop a lifestyle approaching that of the United States or of Western Europe, at least two additional planets such as ours would have to be harnessed to provide the required energy and materials. (p.267)

Although Csikzentmihalyi does not extrapolate this compelling discussion of resource constraints directly to online environments, his discussion provides a policy-oriented motivation for considering the online consumption experience as a socially beneficial substitute for traditional “real-world” consumption experiences. Further, Csikzentmihalyi (2000, p. 270) commented that the level of material consumption, in addition to not being scalable to the world’s population, also does not correlate with people’s happiness and subjective well-being (Csikszentmihalyi, 1999; Diener, 2000; Myers, 2000). Given these two concerns, Csikzentmihalyi raised the question: “Is it impossible to develop an economy…where consumption involves the processing of ideas, symbols, and emotional experiences rather than the breakdown of matter?”

The beginnings of such an economy are currently taking shape on the Web. As a largely virtual environment, the Web provides opportunities for nonresource depleting consumption that satisfies both goal-directed as well as experiential consumption objectives. Consider, for example, “virtual collectors” who collect MP3 files or movie files, in contrast to people who collect physical CDs or record albums. Arguably the same goal-directed and experiential benefits accrue to both types of collectors, but the former is considerably less resource depleting and scales much better to larger numbers of people and larger collections. In this view, the Web and devices used to access it, become a relatively nonresource intensive “consumption platform.”

In the context of innovation and diffusion theory (Gatignon & Robertson, 1985; Mahajan, Muller, & Bass, 1990; Rogers, 1983), when a new technology is introduced, the most immediate applications of that new technology are to implement current activities in new ways. The “innovators” are only partial innovators, in that they are applying new tools to existing problems. Only in the latter part of the adoption process does true innovation take place, when the new technology is used to facilitate new activities that are grounded in the unique characteristics of the new technology.

Just this phenomenon is currently unfolding on the Internet. Many early business models—and many spectacular failures—were efforts to implement current consumption activities in an online environment. Now failed, but well-funded early start-ups in online retail categories as diverse as art (art.com), gardening (egarden.com, garden.com), groceries (kozmo, Webvan), toys (eToys, toymart), pet food (Petopia, pets.com, petstore.com) and music (CDNow, CDworld) provide good examples of this. A large number of early online firms still in business, including the “poster child” for consumer e-commerce, Amazon.com, continue to lose money and see their ultimate chances for profitability continually questioned. It is highly doubtful that the ultimate Web success stories will be those attempts at using new technology to implement conventional consumption activities.

Instead, those activities that take advantage of the unique features of the Internet, what Hoffman and Novak (2000) call the “Webby” applications (e.g., MP3 file sharing, instant messaging, Webcams, and consumer-to-consumer models), will more likely be behind eventual commercial success on the Web. This is important because these Webby applications have in common a strong experiential process underlying the application. Thus, continued study of the contrast between goal-directed and experiential processes online is likely to further enhance consumer researchers’ understanding of the fundamentals of compelling online experiences.

<table>
<thead>
<tr>
<th>TABLE 14</th>
<th>Segments Characterized by Nature of Involvement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Situational Involvement (Goal-Directed)</strong></td>
</tr>
<tr>
<td>With goal or process</td>
<td>(1) Feel good; In the zone; Goal-directed</td>
</tr>
<tr>
<td>With product or content</td>
<td>(3) Content lovers</td>
</tr>
</tbody>
</table>

Adapted from Hoffman and Novak (1996).
ACKNOWLEDGMENTS

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