

BUYING THE POWER OF TOUCH: EXPLORING THE INFLUENCE OF TACTILE SENSORY MARKETING ON CONSUMER DECISIONS

Manohara V¹, Alka Jain²

E-Mail Id: bv.manu86@gmail.com, alkajain2008@gmail.com

¹Govt. First Grade College, Holenarasipura, Hassan, Karnataka, India

²ISBR Research Centre Bangalore, Bangalore, Karnataka, India

Abstract- Sensory marketing has become an increasingly important tool in influencing consumer perceptions and purchase Behaviour by appealing to the five human senses: sight, sound, smell, taste, and touch. While extensive research has been conducted on visual, auditory, and olfactory stimuli, the tactile dimension of sensory marketing remains comparatively underexplored, despite its critical role in product evaluation, especially for categories like apparel, cosmetics, and personal care items. This study addresses this research gap by investigating the influence of tactile sensory marketing on consumer buying decisions within physical retail environments.

Examining the impact of tactile sensory signals on customer perceptions of product quality and purchase intentions was the main goal of the study. A standardised questionnaire with a 5-point Likert scale was used in a quantitative study design. 395 respondents provided data in urban retail environments, and a pilot study verified the instrument's reliability (Cronbach's Alpha = 0.850).

Descriptive statistics revealed balanced demographic participation, while inferential statistical techniques, including correlation analysis, regression analysis, and ANOVA, were applied to test the proposed hypotheses. Results demonstrated significant positive correlations between tactile sensory cues, product perception ($r = 0.68$, $p < 0.01$), and purchase intentions ($r = 0.72$, $p < 0.01$). Regression analysis confirmed that tactile experiences significantly predict purchase intentions ($\beta = 0.72$, $p < 0.001$), and ANOVA results highlighted demographic variations in tactile responsiveness.

The findings emphasize the strategic importance of integrating tactile elements into product design, packaging, and in-store experiences to enhance consumer engagement and drive purchase Behaviour. The study offers theoretical contributions to sensory marketing literature and provides actionable insights for marketers, particularly in industries where physical interaction is central to product evaluation.

Keywords: Tactile Sensory Marketing, Consumer Buying Decisions, Product Perception, Purchase Intentions, Haptic Marketing, Sensory Cues, Consumer Behavior.

1. INTRODUCTION

1.1 Background and Context

Sensory marketing has emerged as a crucial approach in influencing consumer Behaviour by appealing to the five human senses: sight, sound, smell, taste, and touch (Krishna, 2012). While visual and auditory stimuli have been widely researched and integrated into marketing strategies, tactile sensory marketing remains relatively underexplored, despite its significant impact on shaping consumer perceptions and purchase decisions (Peck & Childers, 2003). Touch, as a fundamental human sense, plays a vital role in evaluating product quality, authenticity, and comfort, particularly for products where direct interaction is possible, such as clothing, cosmetics, and personal care items (Grohmann, Spangenberg, & Sprott, 2007). Through tactile experiences, consumers can physically assess attributes like texture, weight, temperature, and softness, which are critical in building trust and influencing buying intentions. The broader field of sensory marketing is rooted in the idea that multi-sensory experiences can enhance brand engagement and create lasting impressions (Krishna, 2012). However, most existing research emphasizes visual merchandising, music, or olfactory cues, with limited attention given to the haptic or tactile dimension (Peck & Wiggins, 2006). This lack of comprehensive research into tactile sensory marketing presents a gap, especially considering its potential to influence purchase Behaviour, enhance perceived product value, and differentiate brands in competitive markets. Therefore, this study focuses on understanding how tactile sensory marketing strategies affect consumer buying decisions, contributing to both academic knowledge and practical marketing applications.

1.2 Research Problem

Despite increasing competition in the marketplace, many businesses underutilize tactile sensory marketing, focusing primarily on visual and digital advertising. The specific problem addressed in this study is the insufficient

understanding of how tactile experiences influence consumer perceptions and buying Behaviour, particularly in industries where touch is a critical component of product evaluation. This gap is significant because consumers often rely on touch to assess product quality, comfort, and authenticity, yet businesses may overlook the strategic potential of integrating tactile elements into product design, packaging, or retail environments (Peck & Childers, 2003). Moreover, as online shopping grows, the absence of physical interaction poses challenges, making it essential to understand how tactile experiences in physical settings contribute to brand loyalty and purchase intentions. It is essential to investigate this matter from a theoretical and practical perspective. The study theoretically advances our knowledge of tactile signals, which adds to the body of literature on sensory marketing. In practice, it gives product designers and marketers the knowledge they need to improve customer happiness, engagement, and eventually sales results.

1.3 Objectives

- To explore the role of tactile sensory marketing in shaping consumer perceptions.
- To examine the influence of tactile experiences on consumer buying decisions.
- To provide actionable recommendations for marketers to effectively integrate tactile elements into their strategies.

1.4 Hypotheses

H1: Positive tactile experiences significantly enhance consumers' perception of product quality.
H2: Tactile sensory marketing has a direct positive impact on consumers' purchase intentions.
H3: The influence of tactile sensory cues is stronger for products where physical interaction is integral to product evaluation (e.g., clothing, cosmetics, personal care items).

1.5 Scope

This study focuses on understanding the role of tactile sensory marketing in influencing consumer buying decisions, with a specific emphasis on industries where touch is central to product evaluation, such as cosmetics, apparel, and personal care products. The research primarily targets consumers in physical retail environments, where direct product interaction is possible.

1.6 Limitations

The study does not extensively cover digital or online marketing channels, where tactile experiences are absent. It also excludes other sensory dimensions such as visual, auditory, or olfactory marketing unless they directly interact with tactile experiences. The research is geographically limited to urban consumers, and findings may not be generalized to rural or international markets. Additionally, consumer responses may vary based on cultural factors, personal preferences, and individual differences in tactile sensitivity.

2. LITERATURE REVIEW

2.1 Theoretical Framework

Tactile sensory marketing draws heavily from theories of sensory marketing, haptic perception, and consumer Behaviour psychology. Krishna's (2012) Sensory Marketing Framework emphasizes the role of multi-sensory cues—sight, sound, smell, taste, and touch—in shaping consumer perceptions and decisions. Within this, the haptic system refers to the sense of touch, which allows individuals to assess product attributes like texture, temperature, and weight (Lederman & Klatzky, 2009).

The Haptic Perception Theory (Lederman & Klatzky, 1993) explains how individuals use active touch to gather information about products, particularly when visual or verbal cues are insufficient. Additionally, Peck and Childers (2003) introduced the Need for Touch (NFT) scale, suggesting that consumers vary in their reliance on touch for product evaluation, affecting their purchase decisions.

The Mere Touch Effect, proposed by Peck and Shu (2009), suggests that even brief tactile interaction can increase psychological ownership and purchase intentions, highlighting the subconscious influence of touch in consumer Behaviour.

2.2 Empirical Review

A significant body of research supports the role of touch in enhancing product evaluation and buying decisions. Peck and Childers (2003) demonstrated that tactile input positively influences perceptions of product quality and increases the likelihood of purchase. Similarly, Krishna (2012) highlighted that haptic cues create stronger emotional connections with products, reinforcing brand loyalty.

Grohmann et al. (2007) found that tactile packaging materials influence consumers' perceptions of product luxury and value. Furthermore, Spence and Gallace (2008) emphasized that tactile cues, alongside other sensory inputs,

significantly affect food and retail experiences. In e-commerce contexts, Citrin et al. (2003) noted that the lack of tactile feedback is a major limitation, leading to consumer uncertainty.

Peck and Wiggins (2006) revealed that affective touch enhances persuasion, while Elder and Krishna (2010) confirmed the combined effect of visual and tactile cues on perceived product quality. Silva and Alwi (2008) explored how tactile interaction in offline settings strengthens brand equity, reinforcing the significance of touch in physical retail.

Despite these findings, research gaps persist. Lwin et al. (2010) argued that touch remains underutilized in marketing strategies, while Lederman and Klatzky (2009) suggested more studies are needed to understand touch across different product categories.

Critiques of existing studies include limited consideration of individual differences in haptic preferences (Petra & Sarter, 2001) and an over-reliance on laboratory settings that may not reflect real-world consumer experiences (McCabe & Nowlis, 2003).

Additionally, research by Krishna and Morrin (2008) revealed cross-modal influences, where tactile cues affect other sensory perceptions like taste, underscoring the need for integrated, multi-sensory studies.

2.3 Conceptual Gaps

Although the influence of tactile sensory marketing is well-established, several gaps remain. First, many studies focus on specific products or controlled environments, limiting generalizability to diverse retail settings (Peck & Childers, 2003; McCabe & Nowlis, 2003). Second, little research has explored tactile marketing in emerging markets or among culturally diverse consumers (Krishna, 2012).

Further, with the growth of e-commerce, there is limited understanding of how tactile experiences in physical retail spaces can complement online shopping (Citrin et al., 2003). Also, studies often overlook the role of packaging design as a tactile marketing tool beyond mere functionality (Grohmann et al., 2007).

This study addresses these gaps by investigating how tactile sensory cues in product design, packaging, and retail environments influence consumer buying decisions across relevant industries such as cosmetics, apparel, and personal care. It further considers variations based on product type, consumer demographics, and retail formats, contributing to a more holistic understanding of tactile sensory marketing.

3. METHODOLOGY

3.1 Research Design

This study uses a quantitative research approach, collecting consumer data about how tactile sensory marketing affects their purchasing decisions using structured surveys. Consumer perceptions, attitudes, and purchase intentions in reaction to tactile marketing methods are measured using a questionnaire with a 5-point Likert scale. Ordinal data appropriate for statistical analysis is provided by the Likert scale, which runs from 1 (strongly disagree) to 5 (strongly agree).

Quantitative design ensures objectivity, enables hypothesis testing, and facilitates generalization of findings to the target population (Creswell, 2014). This approach is appropriate given the study's focus on measurable relationships between tactile sensory marketing and consumer Behaviour.

3.2 Participants/Sample

3.2.1 Population and Sample

The target population includes consumers who purchase products in industries where touch plays a critical role, such as cosmetics, apparel, and personal care products. The sample is drawn from urban retail settings, including shopping malls, brand outlets, and cosmetic stores.

3.2.2 Sampling Technique

A non-probability purposive sampling technique was adopted, selecting participants who have prior experience interacting with products that involve tactile evaluation. The anticipated sample size is 350 respondents, consistent with previous studies in sensory marketing (Peck & Childers, 2003).

3.2.3 Inclusion Criteria

- Consumers aged 18 years and above
- Individuals with experience purchasing products requiring tactile interaction
- Willingness to participate voluntarily

3.3 Materials/Instruments

The primary instrument is a structured questionnaire comprising two sections:

- Section A: Demographic profile (Age, Gender, Occupation, Education, Income)

- Section B: Items measuring perceptions of tactile sensory marketing and its influence on purchase decisions, using a 5-point Likert scale

The questionnaire includes items adapted from validated scales in prior research, such as the Need for Touch (NFT) scale by Peck and Childers (2003) and product evaluation scales by Grohmann et al. (2007).

3.4 Procedures

The data collection process for this study will follow a systematic and ethical approach to ensure accuracy, reliability, and participant welfare. The first step involves obtaining ethical clearance from the relevant Institutional Review Board (IRB) and securing permissions from selected retail outlets where the study will be conducted. This ensures that the research complies with ethical standards and that the participating organizations are informed and cooperative. A pilot test of the questionnaire will be conducted with a small sample of participants when clearances are obtained in order to assess the survey items' relevance and intelligibility. The questionnaire will be modified as needed based on feedback from the pilot test to improve its validity and make sure respondents can understand it.

Following the pilot phase, the main data collection will commence. Participants will be approached in physical retail environments, such as shopping malls, brand outlets, and cosmetic stores, where they have the opportunity to engage with products that involve tactile evaluation. Respondents will get comprehensive information about the study's objectives, and participation will be completely optional. Before distributing the questionnaire, each participant will be asked for their informed permission.

The survey will be administered in person, allowing participants to physically interact with relevant products before completing the questionnaire. This ensures that their responses accurately reflect their tactile experiences. Researchers will be present during data collection to clarify any doubts or questions but will take care to avoid influencing participant responses.

Data collection is expected to span approximately four weeks, or until the desired sample size of 350 respondents is achieved. Throughout the process, strict confidentiality and anonymity will be maintained, and no personal identifiers will be recorded.

3.5 Data Analysis

3.5.1 Analytical Techniques

The data collected for this study were analyzed using a combination of descriptive and inferential statistical methods to ensure a comprehensive understanding of the relationship between tactile sensory marketing and consumer buying Behaviour.

Descriptive Statistics were employed to summarize the demographic profile of the respondents, providing insights into variables such as age, gender, occupation, and purchase patterns. Measures such as frequency distributions, percentages, means, and standard deviations were presented to offer a clear overview of the sample characteristics and general response trends.

Reliability testing was conducted using Cronbach's Alpha to assess the internal consistency of the measurement scales employed in the questionnaire, specifically those evaluating perceptions of tactile sensory experiences, product quality, and purchase intentions. The pilot study, conducted with 50 respondents, yielded a Cronbach's Alpha value of 0.850, indicating a high level of internal consistency. As per standard research guidelines, a Cronbach's Alpha value of 0.70 or above is considered acceptable for ensuring the reliability and robustness of the measurement instruments. The obtained value of 0.850 confirms that the scales used in this study are both reliable and suitable for further statistical analysis.

For examining the research hypotheses, Inferential Statistical Techniques were applied:

- Correlation Analysis was utilized to explore the strength and direction of relationships between tactile sensory cues and key consumer Behaviour variables such as product perception and purchase intentions. Pearson's correlation coefficient indicated whether significant associations existed between these constructs.
- Regression Analysis was performed to assess the direct impact of tactile sensory marketing on consumer buying decisions. This analysis determined the extent to which positive tactile experiences predicted favourable consumer perceptions and increased purchase intentions.
- Analysis of Variance (ANOVA) was employed to identify statistically significant differences in consumer responses across different demographic groups, such as gender, age brackets, or product categories. ANOVA revealed whether the influence of tactile sensory cues varied among different segments of the consumer population.

All analyses were conducted using SPSS (Statistical Package for the Social Sciences) software, version 26 or above, ensuring accuracy, reliability, and comprehensive interpretation of the results.

4. RESULTS AND DISCUSSIONS

Table-4.1 Reliability Test Results

Construct	No. of Items	Cronbach's Alpha (α)	Interpretation
Perception of Tactile Cues	5	0.850	High Internal Consistency
Influence of Tactile Experience on Buying Decisions	5	0.836	High Internal Consistency
Product Category Specific Tactile Influence	5	0.842	High Internal Consistency
Overall Scale Reliability (Pilot Study)	15	0.850	Highly Reliable

Note: A Cronbach's Alpha value above 0.70 indicates acceptable internal consistency. Values closer to 1.0 suggest excellent reliability of the scale used for data collection.

Table-4.2 Descriptive Statistics of Respondents (N = 395)

Demographic Variable	Categories	Frequency (n)	Percentage (%)
Gender	Male	212	53.7
	Female	183	46.3
Age Group	Below 25 years	95	24.1
	26 – 35 years	150	38.0
	36 – 45 years	110	27.8
	Above 45 years	40	10.1
Occupation	Student	85	21.5
	Working Professional	210	53.2
	Entrepreneur	60	15.2
	Others	40	10.1
Purchase Frequency for Tactile Products	Rarely	55	13.9
	Occasionally	140	35.4
	Frequently	200	50.6

Table-4.3 Descriptive Statistics for Key Constructs

Construct	No. of Items	Mean (M)	Standard Deviation (SD)
Perception of Tactile Cues	5	4.10	0.65
Influence of Tactile Experience on Buying Decisions	5	4.02	0.72
Product Category Specific Tactile Influence	5	4.15	0.68

The demographic profile indicates balanced representation across gender and significant participation from working professionals and young adults, aligning with typical consumers of products where tactile sensory cues are prominent (e.g., fashion, cosmetics). The mean scores for all key constructs are above 4.0, suggesting favourable perceptions

toward tactile marketing and its impact on purchase decisions. The high reliability coefficients confirm the consistency and robustness of the measurement tools used.

4.1 Relationship Between Tactile Sensory Cues, Product Perception, and Purchase Intentions

The results from the Pearson correlation analysis, presented in Table 4, reveal significant positive relationships among the key variables of the study. Specifically, tactile sensory cues demonstrated a strong positive correlation with both product perception ($r = 0.68, p < 0.01$) and purchase intentions ($r = 0.72, p < 0.01$). Furthermore, product perception and purchase intentions were also significantly correlated ($r = 0.75, p < 0.01$).

These findings validate the first research hypothesis (H1) which posited that positive tactile experiences significantly enhance consumers' perception of product quality. The strength of these correlations suggests that tactile sensory inputs, such as product texture, surface feel, or packaging material, play a vital role in shaping consumers' cognitive evaluations and emotional responses to products.

Importantly, the significant association between tactile cues and purchase intentions indicates that consumers are more likely to engage in buying decisions when tactile elements are perceived favourably. This underscores the critical role of sensory marketing strategies in influencing consumer behaviour.

Table-4.4 Pearson Correlation Matrix Relationship between Tactile Sensory Cues, Product Perception, and Purchase Intentions (N = 345)

Variables	Tactile Cues	Product Perception	Purchase Intentions
Tactile Sensory Cues	1.00	0.68**	0.72**
Product Perception	0.68**	1.00	0.75**
Purchase Intentions	0.72**	0.75**	1.00

Note: $p < 0.01$ (2-tailed)

Interpretation: Significant positive correlations exist between tactile sensory cues, product perception, and purchase intentions, supporting the hypothesised relationships.

4.2 Impact of Tactile Sensory Marketing on Purchase Intentions

The regression analysis results displayed in Table 5 provide empirical support for the second hypothesis (H2), which stated that tactile sensory marketing has a direct positive impact on consumers' purchase intentions. The model demonstrated a strong explanatory power ($R^2 = 0.52$), indicating that approximately 52% of the variance in purchase intentions can be attributed to tactile sensory cues.

The standardized beta coefficient for tactile sensory cues ($\beta = 0.72, p < 0.001$) confirms a significant and positive predictive relationship with purchase intentions. These results align with previous research emphasizing the role of sensory stimuli in enhancing consumer engagement, product evaluation, and ultimately, purchase likelihood.

This finding reinforces the strategic importance of incorporating tactile elements, such as product texture, ergonomic design, and material quality, within marketing practices, especially for products where physical interaction is integral to the consumer experience.

Table-4.5 Regression Analysis Summary Impact of Tactile Sensory Marketing on Purchase Intentions

Model	R	R ²	Adjusted R ²	Std. Error	F Value	Sig.
Tactile Sensory Cues → Purchase Intentions	0.72	0.52	0.52	0.46	370.25	0.000

Interpretation: Tactile sensory cues significantly and positively predict purchase intentions, confirming H2.

4.3 Influence of Demographic Factors on Product Perception

The results from the One-Way ANOVA, illustrated in Table 6, indicate statistically significant differences in product perception across various age groups ($F = 5.89, p = 0.001$). Post-hoc analysis (Tukey HSD) revealed that younger consumers (18-25 years) reported significantly different product perception scores compared to older consumers (above 40 years).

This finding supports the third hypothesis (H3), which proposed that the influence of tactile sensory cues is stronger for products where physical interaction is integral to product evaluation, with potential variations across demographic segments. It highlights that tactile marketing does not produce uniform effects across all consumer groups; rather, its impact may vary based on consumer characteristics such as age, lifestyle, or prior product experiences.

Marketers can leverage this insight by tailoring tactile sensory strategies to specific target groups, ensuring that the design and material attributes of products resonate effectively with different demographic profiles.

Table-4.6 One-Way ANOVA Results Differences in Perception of Product Quality Across Age Groups

Source of Variation	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	12.35	3	4.12	5.89	0.001
Within Groups	238.45	341	0.70		
Total	250.80	344			

Post Hoc (Tukey HSD) tests indicate significant differences between younger (18-25) and older (40+) groups.

Interpretation: There are statistically significant differences in how product quality is perceived across different age groups, supporting H3.

4.4 Summary and Managerial Implications

The study provides robust empirical evidence that tactile sensory marketing significantly shapes consumer perceptions and purchase intentions. The strong correlations and predictive relationships underscore the value of integrating tactile elements into product design, retail experiences, and promotional activities. Moreover, the demographic differences observed suggest that marketers should adopt segmented approaches to maximize the effectiveness of sensory marketing interventions.

These results contribute to the growing body of literature on multisensory marketing and offer actionable insights for businesses, particularly in product categories such as clothing, cosmetics, and personal care, where touch forms a critical component of the evaluation process.

CONCLUSION AND FUTURE RESEARCH DIRECTIONS

This study aimed to explore the influence of tactile sensory marketing on consumer buying decisions, with a particular focus on industries where physical interaction with products is integral, such as cosmetics, apparel, and personal care items. The findings confirm that positive tactile experiences significantly enhance consumer perceptions of product quality and directly impact purchase intentions. The statistical analyses, including correlation, regression, and ANOVA, provided empirical support for the proposed hypotheses, highlighting the vital role that touch plays in shaping consumer Behaviour within physical retail environments.

The results reinforce the theoretical foundations of haptic perception and sensory marketing, illustrating that tactile cues such as texture, weight, temperature, and material softness create not only product differentiation but also foster trust, emotional connection, and brand loyalty among consumers. Furthermore, demographic analysis indicated variations in tactile responsiveness across different consumer groups, suggesting the need for tailored marketing strategies.

From a practical perspective, businesses are encouraged to integrate tactile elements into product design, packaging, and retail displays to leverage the psychological ownership and positive product judgments that stem from touch. As competition intensifies in physical and hybrid retail formats, tactile sensory marketing presents a valuable yet often underutilized avenue for enhancing consumer engagement and driving sales.

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