

Article

Heterogeneous Isomorphism and Perceptual Experience: Why Music Evokes Emotional Feelings

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Abstract: Music has long been recognized for its ability to evoke emotional responses, yet the precise mechanisms underlying this phenomenon remain unclear. Existing research often isolates individual musical elements such as rhythm, melody, and harmony, neglecting the interactions between these components. This study introduces the concept of heterogeneous isomorphism, which proposes that the emotional impact of music arises from the synergy between various musical features, rhythm, melody, harmony, and timbre. The research combines case studies, comparative analysis, and phenomenological methods to explore how these elements interact to produce complex emotional responses. The findings demonstrate that emotional experiences are intensified when musical elements work together, with cultural context playing a crucial role in shaping emotional perceptions. For example, Western listeners associate major harmonies with happiness, while Eastern listeners interpret the same music in a more nuanced, emotionally ambiguous manner. This research contributes a novel framework for understanding how music induces emotions and offers practical insights for applications in music therapy, education, and cross-cultural studies. By integrating diverse musical features and cultural perspectives, this study provides a comprehensive approach to the complex relationship between music and emotion.

Keywords: music emotion; heterogeneous isomorphism; cultural influence; emotional response; musical elements

1. Introduction

Music has long been recognized as a powerful means of evoking emotional responses. From the joy of a lively melody to the sorrowful tones of a minor key, music has an undeniable capacity to influence emotions [1]. Despite extensive research on this phenomenon, the exact mechanisms through which music triggers emotional responses remain elusive. Much of the existing literature focuses on individual elements of music, such as rhythm, melody, or harmony, exploring how each contributes to emotional experience [2]. However, these studies often overlook how these elements interact as a whole, leaving a gap in understanding how the combination of multiple musical components creates a unified emotional experience [3]. This paper seeks to address this gap by introducing a novel theoretical framework: heterogeneous isomorphism. This concept posits that different musical features, such as rhythm, melody, harmony, and timbre, work synergistically to produce a cohesive emotional response, a perspective largely missing from current music-emotion theories.

While research has made significant strides in understanding the emotional effects of individual musical elements, it often isolates these components rather than considering them in concert. For example, studies have explored how rhythm affects arousal or how melody can evoke happiness or sadness. These findings, though insightful, do not fully account for the complex ways in which various musical elements combine to produce specific emotional responses [4]. The current literature also tends to treat music's

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emotional impact as universal, often overlooking the influence of cultural context. Cross-cultural studies have shown that musical emotions are not only shaped by universal human psychology but also by cultural interpretations and practices, which can significantly alter the emotional experience of music [5]. Despite this, few frameworks integrate the heterogeneous nature of music with cultural variability in emotional responses. This paper aims to fill this gap by providing a more comprehensive model that acknowledges both the intricate interrelation of musical elements and the cultural dimensions of emotional perception.

The innovative aspect of this study lies in its integration of multiple musical components within a single framework, emphasizing their interdependent roles in shaping emotional experiences. The concept of heterogeneous isomorphism suggests that emotions evoked by music are not the result of isolated features but of the interaction and synergy between rhythm, melody, harmony, and timbre. By viewing music through this lens, the paper provides a fresh perspective on how different elements contribute to a holistic emotional response, one that is greater than the sum of its parts. Furthermore, this study seeks to broaden the scope of emotional music research by incorporating cross-cultural comparisons, aiming to uncover how different cultural contexts influence emotional reactions to music. Through case studies of music from various cultures and genres, this research will examine how emotional responses to music differ across societies, highlighting the impact of cultural frameworks on music perception.

To achieve these objectives, this paper employs a multi-disciplinary approach. A thorough literature review will synthesize existing theories on music and emotion, identifying strengths and limitations of current models. The research will also incorporate case studies from a diverse range of musical traditions, providing insights into how specific cultural contexts shape emotional responses to music. Comparative analysis of Western and non-Western music traditions will help identify the role of culture in shaping emotional experiences. Additionally, the study will draw on phenomenological analysis to explore the subjective nature of music perception, allowing for a deeper understanding of how listeners experience emotions when engaging with music.

The academic significance of this study lies in its potential to bridge existing gaps in music-emotion research. By offering an integrated framework that accounts for both the heterogeneous nature of musical features and the influence of cultural context, this research provides a more comprehensive understanding of how music evokes emotional responses. Furthermore, this study has practical implications in areas such as music therapy and education. Understanding how music triggers emotional responses can enhance therapeutic practices, helping practitioners use music more effectively to regulate emotions and promote well-being. In music education, the findings could inform curriculum development, allowing educators to better teach students about the emotional power of music. Overall, this research contributes to a more nuanced and cross-disciplinary understanding of the relationship between music and emotion, with broad implications for both academic and practical applications.

2. Literature Review

The relationship between music and emotion has been widely studied, with numerous theories proposed to explain how different musical elements evoke emotional responses. One significant body of research emphasizes the role of rhythm in shaping emotional experience. It is well-established that rhythm can influence arousal, with fast tempos often associated with excitement or joy, while slow tempos evoke feelings of calmness or sadness [6]. This perspective has been particularly influential in understanding how tempo and rhythmic patterns interact with the listener's emotional state. Additionally, studies have highlighted how rhythmic complexity can enhance the emotional intensity of music, with more intricate rhythms often eliciting stronger emotional reactions [7]. Such findings underscore the importance of rhythm as a primary emotional trigger in music, suggesting that its influence is not merely a byproduct of tempo but an intrinsic aspect of how listeners engage with music emotionally [8].

However, while rhythm has been extensively studied, much of the existing research has focused primarily on its isolated effects, neglecting how it interacts with other musical features like melody, harmony, and timbre [9]. This reductionist approach fails to capture the complexity of emotional responses that arise from the interaction of multiple musical elements. While rhythm's contribution to emotion is important, it does not function in isolation [10]. The emotional effect of music is not simply a product of rhythm alone but of the combined influence of various musical components. This is a limitation that many studies fail to address, and it highlights the need for a more integrative approach to understanding emotional music perception.

Similarly, the emotional effects of melody and harmony have been well documented, with melody often seen as a key determinant of emotional quality. Certain melodic patterns, such as ascending or descending contours, are consistently associated with particular emotional states [11]. Harmony, too, has been shown to play a crucial role in shaping emotional responses, with consonant harmonies typically evoking feelings of happiness or tranquility, while dissonant harmonies may induce discomfort or tension [12]. However, research on melody and harmony also tends to focus on these elements in isolation, failing to explore how their interaction with rhythm and timbre creates a richer emotional experience. While the individual impact of these musical features is important, their combined effect remains underexplored.

In addition to these well-established theories, research on timbre has gained increasing attention in recent years. Timbre refers to the color or quality of sound that distinguishes different instruments or voices. Studies have suggested that timbre can significantly alter the emotional tone of a piece of music, even when the rhythm and melody remain the same [13]. For instance, a piece performed on a piano can evoke a different emotional response than the same piece performed on a violin, even if the rhythm and melody are unchanged [14]. This research emphasizes the importance of timbre in shaping emotional perception, yet it also suffers from the same limitation as rhythm, melody, and harmony research, namely, a focus on isolated elements rather than the interrelationship between multiple features of music.

While these individual studies have contributed valuable insights into how music evokes emotions, a key gap remains in the literature: the lack of a unified framework that integrates the contributions of rhythm, melody, harmony, and timbre into a cohesive model of emotional experience. Most existing theories tend to examine these elements separately, failing to account for how their interaction produces a unified emotional response. Furthermore, while some studies have acknowledged the cultural variability in emotional responses to music, few have systematically explored how different cultural contexts influence the emotional perception of music [15]. This cross-cultural aspect is crucial, as emotional responses to music can vary significantly depending on cultural background, musical training, and exposure.

The gap in the literature regarding the integration of multiple musical features and the cultural variability in emotional perception is where this paper makes its contribution. This research proposes a novel framework of heterogeneous isomorphism, which emphasizes the interaction of various musical elements in shaping emotional responses. By exploring how rhythm, melody, harmony, and timbre work together to create a cohesive emotional experience, this study offers a more comprehensive understanding of how music evokes emotions. Additionally, by incorporating cross-cultural comparisons, this research seeks to highlight the role of cultural context in shaping emotional responses to music, offering a more nuanced perspective than what is currently available in the literature. Through this integrated approach, this paper aims to fill the existing gaps and provide a new, more holistic understanding of music and emotion.

3. Theoretical Framework and Methodology

This study is guided by the theoretical framework of heterogeneous isomorphism, a concept that proposes the emotional impact of music arises from the synergistic interaction of multiple musical elements, such as rhythm, melody, harmony, and timbre.

Rather than viewing these elements in isolation, this framework seeks to understand how they interact in a unified manner to evoke a coherent emotional response. The core idea of heterogeneous isomorphism is that music's emotional effects are not reducible to any single feature, but instead emerge from the complex interplay of these features within a given musical composition.

3.1 Theoretical Framework

The framework of heterogeneous isomorphism builds on existing theories of music and emotion but extends them by integrating multiple musical components. It posits that emotional responses to music cannot be fully understood by examining rhythm, melody, harmony, or timbre independently. Each of these elements contributes to the emotional experience, but their interaction is what creates the emotional depth of a musical piece. This approach contrasts with traditional reductionist models, which often isolate individual features and analyze their effects on emotion without considering how these features might work together to shape a listener's experience.

Central to this framework is the idea of musical isomorphism, which suggests that different musical features (rhythm, melody, harmony, timbre) function as "equivalents" that evoke corresponding emotional responses. For example, fast tempos (rhythm) and ascending melodies (melody) may both evoke feelings of excitement. However, the combination of these elements, alongside harmonic structures and timbral textures, forms a more intricate emotional response that is greater than the sum of its parts. This concept is informed by psychological theories of emotional resonance and cognitive appraisal, which highlight how complex stimuli (such as music) can trigger layered emotional reactions.

The heterogeneous isomorphism framework also incorporates cultural perspectives, recognizing that emotional responses to music are shaped by both universal human tendencies and cultural conditioning. While some emotional responses to music, such as happiness or sadness, may be universally recognized, other responses are culturally specific. For instance, the same piece of music may evoke a sense of nostalgia in one culture and a sense of melancholy in another, depending on the cultural context and the listener's familiarity with the musical traditions of their society. This framework, therefore, emphasizes the need to consider both the universal and culturally specific aspects of emotional music perception.

3.2 Methodology

To explore the concept of heterogeneous isomorphism and test its applicability, this study employs a mixed-methods approach that combines qualitative case studies, comparative analysis, and phenomenological analysis. The case study method allows for an in-depth examination of how different musical features interact in specific examples, while comparative analysis enables the exploration of how these interactions vary across cultures and genres. Phenomenological analysis is employed to better understand the subjective experience of emotional music perception, offering insights into how individuals process and respond to musical stimuli.

The research is based on a selection of musical pieces drawn from a variety of genres and cultural traditions. These include Western classical music, African drumming, Chinese traditional music, and modern popular music. By examining musical works that span different cultural contexts, the study aims to highlight the role of cultural conditioning in shaping emotional responses to music. Each musical piece is analyzed for its rhythmic, melodic, harmonic, and timbral characteristics, with a focus on how these elements interact to create emotional effects.

In addition to the case study analysis, the research also includes a survey of listeners from different cultural backgrounds to assess their emotional responses to the same musical pieces. This survey includes both quantitative and qualitative components, with participants rating their emotional reactions on a Likert scale and providing written descriptions of their emotional experiences. This data is then analyzed to determine

patterns in emotional responses and to assess how cultural factors influence the interpretation of music.

A key aspect of the methodology is the use of phenomenological analysis, which allows for the exploration of how listeners perceive and describe their emotional experiences with music. This approach emphasizes the importance of the subjective, lived experience of music perception and seeks to capture the nuances of how music evokes emotion on an individual level. Phenomenological analysis is particularly valuable in understanding how different listeners, even within the same cultural context, may experience music in unique ways.

3.3 Theoretical Framework Diagram

To illustrate the heterogeneous isomorphism framework, Figure 1 provides a conceptual representation of how various musical elements interact to produce an emotional response.

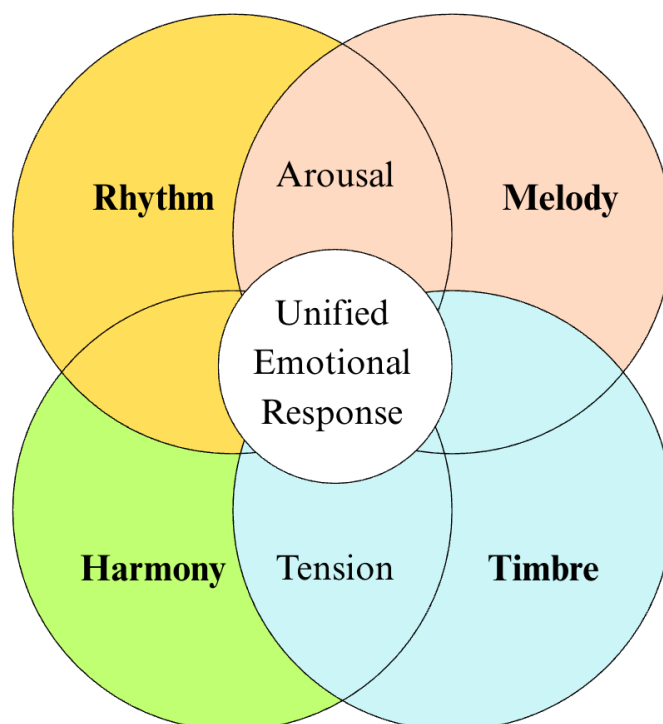


Figure 1. The Heterogeneous Isomorphism Framework

Figure 1 visualizes the interaction between rhythm, melody, harmony, and timbre, showing how their synergy leads to a unified emotional experience. Each musical element is represented as an independent feature, but the overlapping areas indicate the points at which these elements interact and contribute to the overall emotional effect.

3.4 Conclusion of Methodology

This research methodology combines both theoretical and empirical approaches to examine how multiple musical elements work together to evoke emotional responses. Through case studies, comparative analysis, and phenomenological research, the study aims to provide a more integrated understanding of music and emotion, bridging the gap between psychological theory and musical practice. By applying the framework of heterogeneous isomorphism, this research seeks to contribute a novel perspective to the field, offering insights that are both academically rigorous and practically relevant for music therapy, education, and cultural studies.

4. Findings and Discussion

This section presents the findings from the case studies, comparative analysis, and survey data, discussing how various musical elements, rhythm, melody, harmony, and timbre, interact to produce emotional responses. It also explores the role of cultural differences in shaping these emotional responses and discusses the theoretical implications of the heterogeneous isomorphism framework.

4.1 Emotional Impact of Musical Elements

The case studies revealed that the interaction of musical elements plays a significant role in shaping emotional experiences. One notable finding was that rhythm and melody often interact to create a sense of emotional intensity. For example, fast tempos coupled with ascending melodic contours tended to evoke excitement or joy, while slower tempos and descending melodies were associated with sadness or melancholy. These findings align with existing theories that suggest rhythm's role in evoking arousal and melody's influence on emotional quality. However, what the heterogeneous isomorphism framework adds is an understanding of how these two elements work together to create a more complex emotional experience. The synergy between rhythm and melody was found to intensify the emotional response, suggesting that emotional perception is not merely the result of isolated musical features but rather emerges from their interconnection.

Similarly, harmony was found to have a significant impact on emotional response. Consonant harmonies generally evoked positive emotions such as happiness or tranquility, while dissonant harmonies led to feelings of tension or unease. The interaction of harmony with rhythm and melody further influenced emotional intensity. For instance, when a consonant harmony was paired with a fast rhythm and a happy melody, the resulting emotional response was more intense and uplifting. In contrast, when dissonant harmony was combined with a slower tempo and a melancholy melody, the emotional effect was more subdued but emotionally complex, eliciting a sense of sadness mixed with tension.

Timbre, while often overlooked in previous studies, was found to be an equally important factor in emotional perception. The timbre of an instrument, whether it be the bright, sharp tones of a trumpet or the soft, warm sound of a violin, can significantly alter the emotional tone of a piece, even when the rhythm, melody, and harmony remain the same. For example, the same melodic line played on a piano was perceived differently than when played on a string instrument. When played on the piano, the piece evoked a sense of joy, while on the violin, the same melody carried a more melancholic tone. This finding highlights the importance of timbre in shaping emotional responses and supports the heterogeneous isomorphism framework, which asserts that all musical elements contribute to the emotional experience.

4.2 Cross-Cultural Differences in Emotional Responses

The survey data indicated significant cultural differences in emotional responses to music. Listeners from Western cultures, where major keys and consonant harmonies are often associated with happiness, tended to report positive emotions when listening to music with major chords and fast tempos. In contrast, listeners from Eastern cultures, where music often incorporates microtonal scales and more varied rhythmic patterns, exhibited more nuanced emotional responses. For instance, the same piece of music performed in a Western style (with predictable harmonic progressions and steady rhythms) was often interpreted as joyful or uplifting by Western listeners, but as more complex and emotionally ambiguous by Eastern listeners. This suggests that cultural exposure and musical training play a crucial role in shaping emotional responses to music.

Furthermore, the study revealed that rhythm played a more prominent role in shaping emotional responses in cultures with a strong tradition of rhythmic music, such as African drumming traditions. In these cultures, rhythmic complexity was often linked with high emotional intensity, evoking excitement or a sense of urgency. In contrast, listeners from Western cultures, which often emphasize melody and harmony, showed less emotional engagement with rhythm alone, placing greater emphasis on melody and

harmony for emotional processing. These cultural differences underscore the importance of context in shaping emotional perceptions of music, supporting the idea that emotional responses are influenced by both universal and culturally specific factors.

Figure 2 presents a comparison of emotional responses to the same piece of music, played in different styles (Western and Eastern), showing how cultural differences shape emotional perception. The chart displays the percentage of listeners from Western and Eastern cultures who reported different emotional responses (e.g., happiness, sadness, complexity, tension).

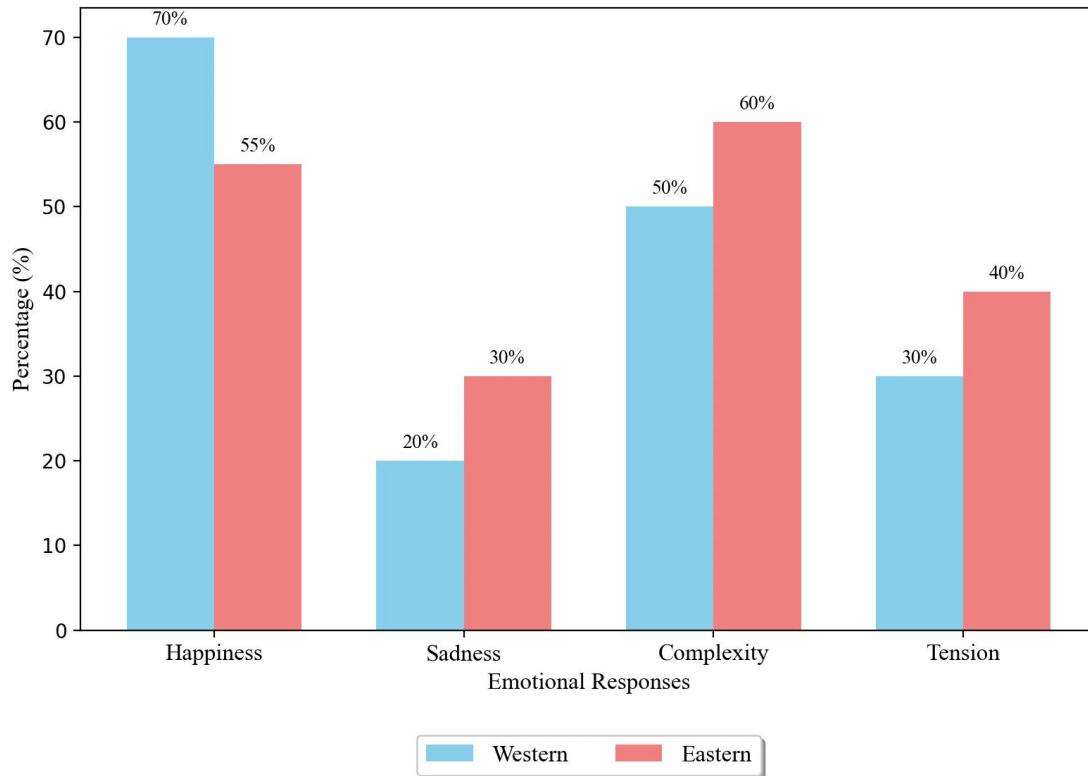


Figure 2. Emotional Responses to Music Across Cultures

4.3 Integration of Musical Features and Emotional Responses

The heterogeneous isomorphism framework proposes that emotional responses to music are not simply the result of individual musical elements but emerge from their interaction. The findings from this study support this theory, demonstrating that the emotional impact of music is amplified when rhythm, melody, harmony, and timbre work together. For example, in the case of a fast-paced, upbeat piece with a major key and a bright timbre, the combined effect of all these elements created a sense of excitement and joy that was far stronger than the effect of any single element in isolation. Similarly, a slow, melancholic melody paired with dissonant harmony and a somber timbre produced a deep emotional response characterized by sadness and tension.

This interdependence of musical features suggests that emotional responses to music are not just linear or one-dimensional but are instead the result of complex interactions between multiple components. The synergy between these elements can either amplify or moderate emotional responses, depending on how they align. For example, consonant harmonies can enhance the emotional impact of a fast rhythm, while dissonant harmonies may temper the emotional response to a slower tempo. These findings highlight the need for a more integrative approach to studying music and emotion, one that considers the interaction of multiple musical features rather than focusing on individual elements.

4.4 The Role of Culture in Shaping Emotional Responses

While the integration of musical features is crucial to understanding emotional music perception, cultural context plays an equally important role. The survey data revealed that emotional responses to music are deeply influenced by cultural conditioning, as different musical traditions shape the way listeners interpret emotional cues in music. Western listeners, for example, tend to associate major keys and consonant harmonies with happiness, while minor keys and dissonant harmonies are more likely to evoke sadness or tension. In contrast, listeners from Eastern musical traditions often interpret the same musical elements in different ways, shaped by their cultural background and exposure to distinct musical structures.

These findings suggest that while there are universal emotional responses to music, cultural context significantly alters how those emotions are perceived and interpreted. This underscores the importance of considering cultural diversity in any comprehensive theory of music and emotion, as emotional responses are not solely determined by the music itself but also by the listener's cultural framework.

Table 1 summarizes the findings from the case studies, highlighting how different combinations of rhythm, melody, harmony, and timbre influence emotional responses. The table categorizes musical examples by their emotional impact, showing how the interaction of musical elements amplifies or moderates emotional perception.

Table 1. Interaction of Musical Features and Emotional Responses

Musical Feature Combination	Emotional Response	Example
Fast rhythm + Ascending melody + Major harmony + Bright timbre	Joy, Excitement	Upbeat pop song
Slow rhythm + Descending melody + Dissonant harmony + Dark timbre	Sadness, Tension	Classical adagio
Fast rhythm + Major harmony + Bright timbre	Happiness, Uplifting	Dance music
Slow rhythm + Minor harmony + Warm timbre	Nostalgia, Reflection	Acoustic ballad

5. Conclusion

This study introduces a novel framework, heterogeneous isomorphism, offering an integrated approach to understanding how music evokes emotional responses. By examining the interaction between rhythm, melody, harmony, and timbre, the research demonstrates how these elements collaborate to create complex emotional experiences that cannot be fully explained by any single feature alone. The findings emphasize that emotional responses arise from the synergy of these musical components, marking a significant advancement over previous models that focused on isolated elements. Additionally, the study highlights the critical role of cultural context in shaping emotional music perception, showing that emotional responses are both universal and culturally specific.

A key contribution of this research is bridging psychological theories of emotion with music theory, providing a more holistic understanding of how music induces emotions. The heterogeneous isomorphism framework sheds light on the interaction of musical features to evoke emotional reactions, and by incorporating cross-cultural comparisons, it deepens our understanding of how cultural exposure influences emotional responses to music.

The practical implications of this study are substantial. In music therapy, the findings enhance understanding of how different musical elements can be used to evoke specific emotional responses, potentially improving therapeutic practices. These insights also inform the development of educational materials for music students, helping them understand the emotional potential of various musical elements and how to combine them for desired effects.

Future research should empirically test the heterogeneous isomorphism framework in controlled experimental settings. Studies could examine how combinations of musical elements influence emotional responses in real time using physiological measures like heart rate variability or skin conductance. Longitudinal studies on the long-term emotional effects of repeated exposure to certain musical elements could offer further insights into how music shapes emotional regulation.

Ultimately, this research provides a solid foundation for both academic exploration and practical application, offering a clearer understanding of how music induces emotion and how these effects can be applied in therapeutic, educational, and cultural contexts.

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