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SIDECHAIN COMPRESSION AND THE SONIC CONSTRUCTION OF GROOVE  
IN ELECTRONIC DANCE MUSIC

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This study investigates the role of lateral dynamics processing—specifically sidechain compression and ghost sidechaining—in shaping the sensation of groove within electronic dance music (EDM). While groove has traditionally been associated with micro-temporal variations in live performance, EDM producers often rely on dynamic manipulation to elicit physical responses from listeners. Drawing on theoretical frameworks from embodied music cognition, sensory-motor theory, and record production as musical practice, this research explores how compression techniques influence rhythmic clarity, amplitude modulation, and listener engagement. Through qualitative analysis of three representative tracks—*Music Sounds Better with You* by Stardust, *Tea Leaf Dancers* by Flying Lotus, and *Can't Stop the Feeling* by Justin Timberlake—the study demonstrates how producers creatively use compression to construct groove beyond conventional rhythmic structures. Findings reveal that lateral dynamics processing is not merely a technical tool but a central aesthetic and expressive element in EDM production. This work contributes to a deeper understanding of groove as a sonic, embodied, and production-driven phenomenon, offering insights for music scholars, producers, and educators.

**Keywords:** *Groove, Sidechain Compression, Spectrogram Analysis, Electronic Dance Music (EDM), Record Production as Musical Practice*

# **RELATABLE MUSICAL EXPERIENCES AS METHOD: A CULTURALLY RESPONSIVE PEDAGOGY FOR THAI CLASSICAL MUSIC PRACTICE**

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Practical-based learning is an essential pedagogical method in Thai classical music, as it enhances students' musical and performance skills, as well as their cognitive comprehension and cultural awareness. Nevertheless, these ambitious educational goals pose considerable challenges for both educators and learners in multiple aspects: i) How can learners learn to know and understand this musical culture? and ii) How can teachers guide students towards constructive practices? These structural issues often exhibit unique variations in each classroom. This paper aims to examine the implementation of culturally responsive pedagogy (CRP) in formulating learning strategies that augment the effectiveness of the educational process and enhance student performance outcomes. I assert that the essence of effective musical practice is predominantly linked to the ability of educators to communicate and engage with students while thoroughly comprehending their musical experiences, cultural context, and daily life background. All of these attributes are essential for cultivating an ecology of musical learning that is attuned to learners' perceptions and their musical education and practices. CRP was instrumental in formulating pedagogical approaches in music education and fostering an inclusive learning atmosphere within the music classroom. Moreover, in addition to the educational process, CRP fervently promotes inclusivity, diversity, and novel approaches to understanding music and culture within a multicultural society.

**Keywords:** *culturally responsive pedagogy, Thai classical music, musical experiences as method*

## **NUMERICAL CALCULATIONS IN MALAYSIA ART SONG COMPOSITION: EXPLORING REPERTOIRE I, IV, ii, AND vii**

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This paper explores the intersection of environmental observation and compositional structure through the lens of melodic numerical calculation, demonstrated in the art song cycle I, IV, ii, and vii. Inspired by birdsong as a natural source of rhythm and pattern, the study employs recorded avian calls, analyzing the frequency of chirps to extract quantitative data. These numerical values inform key musical parameters such as phrase length, harmonic progression, rhythmic structure, and melodic development. By translating the organic irregularities of birdsong into a calculated compositional framework, the works embody a dialogue between chance and control, nature and design. For example, in I, a single chirp frequency dictates one phrase, one chord (C major), and one melodic note within the first bar—illustrating the precise embodiment of the source data within the musical material. This approach generates a sonic narrative that resists conventional melodic expectations, offering instead a soundscape derived from the delicate balance of environmental inspiration and numerical discipline. The paper contributes to broader discourses on the integration of natural soundscapes into contemporary composition practice, while enriching the emerging body of Malaysian art song repertoire through alternative compositional strategies.

**Keywords:** *Art Song, Malaysian Art Song, Soundscape, Numerical Calculation, Melodic Numerical Composition*

## JEWELRY DESIGN INCORPORATING CULTURALLY MATERIALS

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Jewellery design incorporating cultural materials, presents concepts and approaches to integrating cultural materials into contemporary jewellery design. It emphasizes both the tangible and intangible values of materials, highlighting their significance as representations of identity, local wisdom, and ways of life within communities. Cultural materials are not merely physical resources, but carriers of narratives, history, and socio-cultural beliefs, which can be transformed into jewellery pieces rich in aesthetic and cultural meaning. The content of this article is derived from the author's compilation of data from related documents, books, and texts, along with an analysis of five research works conducted by the author on cultural materials and

cultural jewellery design. The author has summarized and organized the findings as qualitative information for publication. The article is divided into three sections: 1) Understanding Cultural Materials: This section defines and explains the meaning of cultural materials, presents criteria for identifying materials as cultural, and explores the values of cultural materials. 2) Challenges in Incorporating Cultural Materials in Jewellery Design: This section discusses the criteria for selecting cultural materials for jewellery design, the experimentation and testing of materials to enhance their suitability as jewelry components. 3) Cultural Materials and Jewellery Design: This final section presents ideas for contemporary jewellery design using cultural materials, highlighting their influence on the design process and the evaluation of the value and worth of jewellery crafted with cultural materials. The author includes examples and illustrative images to enhance clarity and understanding for readers. The author hopes this article will promote the design of contemporary and sustainable jewellery with distinctive identities. Ultimately, this article serves as a testament that jewellery design using cultural materials is both a creative and social process, capable of fostering a dialogue between the past and the present while promoting significant aesthetic, cultural, and environmental values.

**Keywords:** *cultural materials, jewellery design, local identity, contemporary design*