

A Treasury of the Art of Pop Music Composition

#### A VIEW FROM THEORY TO CREATION

## 從理論看創作

流行曲譜曲藝術精選

梁裔泓 EWEN LEUNG

常州大学山书师 藏书章

#### A VIEW FROM THEORY TO CREATION

A Treasury of the Art of Pop Music Composition

#### 從理論看創作

流行曲譜曲藝術精選

作者

梁裔泓 Ewen Y. W. Leung

編輯

青森文化編輯組

設計

青森文化設計組

出版

紅投資有限公司(青森文化)

地址:香港灣仔道133號星航資訊中心8樓

電話: (852) 2540 7517

電郵:editor@red-publish.com

網址: http://www.red-publish.com

總經銷

香港聯合書刊物流有限公司

出版日期

二〇一一年九月

印刷查詢電郵

gary@hklabel.com

圖書分類

音樂

ISBN

978-988-8122-49-3

定價

港幣120元正

做作家,不再是夢想!

尚有更多書刊於 http://www.red-publish.com

版權所有 不得翻印

## Contents **內容**

第一部: 旋律創作	
1. Introduction 前言	12
2. Chords, Chord Notes and Scales和弦、和弦音與音階	16
3. Non-Chord Notes, and Diatonic and Chromatic Scales 和弦外音與自然音階及半音音	皆 28
4. Tonality 調性	38
5. Intervals 音程	56
6. Resolution of Dissonant Notes 不協調音的解决方法	64
7. The Formation of Melodic Lines 旋律線條的形成	68
8. Expression of Songs	

Part One: Melody Writing

Part Two: Music Arrangement 第二部: 樂曲編寫	Appendixes 附錄
9. Chord Theory / 100	A. Fundamental Physics of Sound, Music and Noise and 3-D Music
10. Cadences 終止式120	聲音、音樂與噪音的基本物理學 原理及3-D音樂234
11. Chord Progression 和弦進行法130	B. Expression Marks of Music 音樂的表情記號244
12. Resolution of Dissonant Chords 不協調和弦的解决方法 140	C. Sample Cases of Common Chords of Tonic Keys and their Related Keys 主調及其近糸調的
13. Modulation 轉調146	共同和弦例子 246
14. Work Analysis 作品分析166	D. Sample Drum Beats of Some Musical Styles 流行鼓節奏例子249
15. Harmony 和聲學178	E. Abstracts of Some Genres of Popular Music from Wiki
16. Instrumentation 樂器法196	流行音樂種類摘要253 F. Instruction Manuals
17. Pop and Popular Music 流行音樂與Pop222	音樂軟件使用説明書 259 F1. Score Template 259 F2. Matrix 270
18. Computer Software 音樂電腦軟件 226	Index 索引

此为试读,需要完整PDF请访问: www.ertongbook.com

A VIEW FROM THEORY TO CREATION

# 從理論看創作

流行曲譜曲藝術精選

梁裔泓 EWEN LEUNG

## About the Author **作者簡介**



Ewen Y. W. Leung is an engineer. He received his MSc. Degree in Mechanical Engineering from the University of Alberta, Canada. Mr. Leung is interested in research and development and computer programming. He is also the author of several engineering papers.

In recent years, he has become passionately fond of music, especially music composition. His recent works pertinent to music include book writing, pop song composition and computer software development for music analysis and composition.

梁裔泓現任職工程師,畢業於加拿大 亞伯達省大學,取得機械工程碩士學 位,熱愛科技研究及電腦程式寫作, 曾出版多份工程論文。

近年醉心於音樂,尤其是音樂創作, 他的有關音樂作品種類包括書、音樂 軟件及流行歌曲等。

## Contents 內容

Part One : Melody Writing 第一部: 旋律創作

1. Introduction 前言	12
2. Chords, Chord Notes and Scales 和弦、和弦音與音階	16
3. Non-Chord Notes, and Diatonic and Chromatic Scales 和弦外音與自然音階及半音音階	28
4. Tonality 調性	38
5. Intervals 音程	56
6. Resolution of Dissonant Notes 不協調音的解决方法	64
7. The Formation of Melodic Lines 旋律線條的形成	68
8. Expression of Songs 歌曲表達	78

Part Two: Music Arrangement 第二部: 樂曲編寫	Appendixes 附錄
9. Chord Theory	A. Fundamental Physics of Sound, Music and Noise and 3-D Music 聲音、音樂與噪音的基本物理學
終止式 120	原理及3-D音樂234
11. Chord Progression 和弦進行法130	B. Expression Marks of Music 音樂的表情記號244
12. Resolution of Dissonant Chords 不協調和弦的解决方法 140	C. Sample Cases of Common Chords of Tonic Keys and their Related Keys 主調及其近糸調的
13. Modulation 轉調146	共同和弦例子 246
14. Work Analysis 作品分析166	D. Sample Drum Beats of Some Musical Styles 流行鼓節奏例子249
15. Harmony 和聲學178	E. Abstracts of Some Genres of Popular Music from Wiki
16. Instrumentation 樂器法196	流行音樂種類摘要 253 F. Instruction Manuals
17. Pop and Popular Music	音樂軟件使用説明書 259
流行音樂與Pop222	F1. Score Template
音樂電腦軟件 226	Index 索引

#### Preface

This book is intended to provide essential foundation knowledge of music theory for pop music composition. Although today's technology can speed up the process of pop song writing, and computer programs can even help you complete a full music arrangement in just a few hours, you cannot do much if you do not know the basic theory (such as chord progression and harmonization).

This book gives a thorough but brief exposure of what you should know about during the process of pop music composition (i.e. from writing the first musical note to the completion of the whole work including the use of instruments). In other words, this book includes the complete essence of music theory for pop music composition. The main concepts are presented, basically, in point form and written in both English and Chinese, so that they can be easily read and clear to comprehend. The book consists of, mainly, two parts:

- (1) Melody Writing, and
- (2) Music Arrangement.

The first part includes the theory of triads, diatonic and chromatic scales; explanation of tonal music and its key's center, intervals of notes and the technique to convert noises into music. (i.e. resolution of dissonant notes) The

6

methods to create the melodic lines and express a song are also included.

Part two describes the chord theory (including triads, 7th chords and others) and explains the application of chords to chord progression and also the use of musical punctuation (cadences) for expression of musical phrases. Resolution of dissonant chords is also described. The methods to change one tonal center to another (modulation) are presented. Applications of the above mentioned theory in sample pop songs are demonstrated. The theory of harmony and the rules for four-part and counterpoint writings are explained. The features of the string, woodwind, brass and percussion families are described. Part 2 also explains the uses of instruments for modern pop with the background of popular music included. The author has written several computer programs to identify chord notes, generate related melodic lines, and to check parallel and exposed 5th /8ave in harmony writings. These programs are explained. Finally, the computer software commercially available and what they can do in music production are briefed.

For references, six extra sections are appended at the end of this book. Appendix A describes the fundamental

physics of sound, music and noise and the 3 dimensions of music. Appendix B lists more common expression marks of music. Appendix C presents some sample cases of tonic keys and their related keys. Sample drum beats of several musical styles are provided in Appendix D. The abstracts of several genres of popular music from Wikipedia are given in Appendix E. The instruction manuals of two computer programs developed by the author are included in Appendix F.

The author understands the problems most people encountered when learning music theory. Therefore, the materials, tables and figures in this book are presented in a way so as to clear their doubts. Understanding music theory can broaden your vision and enable you to appreciate and enjoy more about music.

The author wishes to express his gratitude to Mr. Don Ashley for his advice on drum techniques and popular music cultures. Thanks are extended to Mr. Vladimir Tamari for his permission to use his works in music painting.

Ewen Y. W. Leung

### 序言

此書旨在提供流行音樂作曲所需的基礎理論知識。儘管今天的科技可以加速流行歌曲寫作的進程,甚至電腦程式也可以協助您在幾小時內完成樂曲編寫;若果您對基本樂理毫無認識(如:和弦進行法、和聲編寫等),科技也不能發揮相對的作用。

此書目的是,使學習音樂理論的讀者更容易了解流行音樂創作過程中應注意的理論部分(即由寫第一個音符開始至完成整篇作品所需的理論概念包括樂器應用)。換言之理論構包括全套流行音樂創作之理論精髓。其重點概念以點列、中英對照的形式陳述,清晰及深入淺出的內容務求讓讀者更易於理解及閱讀。該書主要包含兩個部分:

- (1) 旋律寫作
- (2) 樂曲的編寫。

第一部分包括三和弦的理論,自然音 階和半音音階的理論分析,解釋甚麼 是調性音樂及音程,不協和音的處理 及如何創作及表達優美的旋律。

第二部分講解和弦理論(包括三和弦、

七和弦及其它和弦),解釋如何運用和 弦進行法來配合樂曲,並如何使用終 止式(即音樂標點符號)來表達樂句。

此外,本書亦描述不協調和弦的解決 方法、轉調技巧、作品分析、四聲部 編寫;介紹弦樂、木管、銅管及敲擊 樂的功能及應用。第二部分還解釋現 代流行音樂所用的樂器及流行音樂的 文化背景等。筆者編寫了幾個電腦程 式,以確定和弦音,可提供不同的能 建線條,幫助四聲部寫作,檢查平行 及外場五度/八度。筆者除介紹的 程式外,還敍述了一些現今市面上流 行的電腦軟件及其在音樂製作上的功 能。

本書加入六個附錄作參考。附錄A描 述聲音、音樂及噪音的基本物理學原 理及音樂的三度空間;附錄B列出更 多音樂上常用的表情記號;附錄C陳 述一些主調及其近系調的例子;附錄 D提供一些基本的流行鼓節奏種類; 附錄E撮要及節錄自維基百科的各類 流行音樂風格及文化背景;最後,筆 者編寫的兩個電腦程式之使用手冊附 加在附錄F中。 筆者理解大多數人學習音樂理論時遇到的問題。本書的素材、文字和圖表表達正是為了消除讀者的憂慮。認識音樂理論可以擴大您對音樂的視野,令您更懂得細味音樂、享受音樂的薰陶。

筆者在此衷心感謝Mr. Don Ashley對 運用鼓的技術和流行音樂文化作出寶 貴的意見,及Mr. Vladimir Tamari允許 在本書內使用他的音樂繪圖作示範例子。

梁裔泓

Dedicated to whoever has the passion for music. 給所有音樂愛好者。

#### Part One: Melody Writing 第一部:旋律創作

#### Contents

- ▶ Introduction 前言
- ► Chords, Chord Notes and Scales 和弦、和弦音與音階
- ▶ Non-Chord Notes, and Diatonic and Chromatic Scales 和弦外音與自然音階及半音音階
- ► Tonality 調性
- ► Intervals 音程
- ► Resolution of Dissonant Notes 不協和音的處理
- ► The Formation of Melodic Lines 旋律線條的形成
- ► Expression of Songs 歌曲表達

### 1 Introduction 前言

As everybody may know, a complete piece of pop song contains the melody, lyric and the music that back up the song. The first part of this book will cover only the portions of the theory and concepts that are required in melody writing, while the second part will cover mainly that for music arrangement. Lyric writing is beyond the scope of this book because it is regarded as not part of the music and therefore ignored.

To write a melody, most people may rely on their inspiration which usually comes and leaves instantly. Melody writing merely based on instant inspiration is ineffective since nobody would know when it would come. A method that can help to get inspired anytime is therefore needed.

Inspiration can come from many sources such as the surroundings (things happening around you, everyday news, etc.), research and survey (new techniques, new sounds, different music cultures and so on), other people's works (by analysis and quotation) and even dicing (i.e. picking the tones randomly).

眾所周知,流行音樂創作主要分有作曲、填詞及編曲等部分。作曲(即旋律創作)所需的理論概念將包含在本書第一部分內,而第二部分將講述音樂編寫的重點理論。因為填詞不被視為音樂創作,故將不包括在本書內。

通常創作旋律曲調由靈感啟發, 但因靈感一般都難以捉摸。等待 靈感的來臨很多時都徒勞無功, 靈感最終變「零感」,所以單憑 靈感創作不太可靠,我們需要一 個可以隨意啟發靈感的好方法。

12