

最新彩色透視表現法

麥克筆的世界

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近二十年來，世界之科技發展突飛猛進，其影響之廣大，上自太空探險，下至民衆日常生活，無遠弗屆，日新月异，是故，人類生活之基本素質——德、智、體、群、美五育，無論是得自先天之秉賦，或是後天的培育，其意識型態、觀念與一生奉為主臬之準則，皆隨著科學技術的發展而持續的改變，以於科技化的社會中求得適應與提昇自我之生活品質。特別是在民衆生活富足之後，對於「美」的追求與鑑賞層次，日益提高，而一切工業產品也皆是技術與藝術融合的結晶。「美」，不僅可以消弭人際競爭之壓力，陶冶人生，「美」，亦可使工業化之社會導向和諧與高品質之境界。

本書之作者王健先生，在中學時代，已表露音樂與美術之天賦，四年之前大藝術教育，更奠定其後來在繪畫與設計工作之基礎，其後在大同公司從事工業設計之數年經驗及赴日本東京造形大學深造研究，更孕育其對事物之情境、意像、思想等表達之超人敏銳能力，因此過去幾年來，王健先生無論在建築設計、工業設計或室內設計上屢有獨特創意，不僅在國內設計界獲得肯定，歷年來應邀在國內成大、淡江等校講授工業設計與建築表現課程傳授子弟，亦經常接受各單位延請講授有關工程或工業品之設計，並獲國際藝術設計界之重視，為此，美國密西根大學藝術學院曾於一九八〇年慕名邀請王君赴美擔任講座，講述其具有獨特創見之彩色透視——麥克筆畫法，深獲佳評。

我國目前正邁入工業化之社會，凡工業產品、建築、家具、服裝及室內之設計或廣告插畫等，無不講求時效，俾達到商業化市場競爭之要求，王君所倡導及發明使用之彩色麥克筆畫法，剛好具有速乾性之特色，較傳統使用之水彩畫法為優，是一種嶄新且具未來性之表現法，頗值現代設計從業人員之參考與仿效，尤其是其於教學工作之餘，特將其十餘年之經驗與心血以及自己鑽研、領悟、創造之心得，包羅萬象，有條不紊地彙整綜合予以出版，堪稱國人在設計表現法之第一部系統化且綜合性之創作。本人與王君認識二十餘年，深深佩服其藝術方面之才華與追求美學之執著及敬業之態度，並感於提昇我國經濟發展之努力中，工業產品設計之重要性與日俱增，故樂意為之推薦於士林。

美國杜克大學電機博士
淡江大學副校長

趙榮權

謹序

中華民國七十三年九月十四日

During the recent two decades, science and technology have been progressing rapidly. Their influence can be found in every corner of the earth: from space exploration to our daily life. Development goes on endless and brings improvement to countries. Therefore, the ideology, concepts, and life-long-followed principle relating to the basic essentials of human life, such as moral, intellectual, physical, gregarious, and aesthetic educations, no matter whether inherent or educated, keep on changing and adjusting along with the development of science and technology, so that our living standard can be promoted. Particularly after our life is sufficiently provided for the level of pursuit and appreciation of "beauty" gets higher and higher. All industrial outcomes are the products of technology and art. "Beauty" can release men from the pressure of competition, and can also make competition, and lead the industrial society into a kingdom full of harmony and prosperity.

Mr. King Wang, the writer of this book, has been giving people an impression of his talent in music and fine arts from the time he was a high school student. Four years of art education in the National Taiwan Normal University gave him a firm foundation for painting and designing technique which became his lifelong career. The experience of working for the Tatung Company as an industrial designer and further study at the Tokyo Design College in Japan helped him obtain a sharp ability in expressing his feeling, imagination, and thinking. Hence, Mr. King Wang has created many unique works for architectural, industrial, and interior design for the past several years. His achieve-

ment has been confirmed not only domestically but also internationally. During recent years, he has been invited by Cheng Kung University and Tamkang University to offer courses and give lectures on architectural expression. Moreover, he is frequently invited by the public and private organizations in this country to give lectures relating to engineering or industrial design. After evaluating his achievement, the University of Michigan invited him to address the students of its Art College in 1980, to share with them his unique technique of color perspective with the Marking Pen Drawing Method.

At present, the Republic of China is becoming a very industrial society. Everything, including industrial products, architecture, furniture, clothing, interior design, and advertisement illustrations, are required to meet the demands of the competitive commercial market. Mr. Wang's drawing method with a quick-drying marking pen which is superior to the traditional method can be used for these purposes. This new approach is worth being adopted and taken as a reference for modern designers. Mr. King Wang collects and edits the data based on his experience, research and created it into this book which is the first publication of its kind in Taiwan.

As a friend of Mr. Wang for 20 years, I deeply admire his talent in art and his sincere attitude toward the pursuit of aesthetics. I appreciate his offering in this book very much at a time when the design of industrial products is becoming more important and our country is endeavoring to promote our economical development.

Louis P. Chow

Duke University Ph. D.
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September 14, 1984.

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我曾看過王教授很多設計圖，對他色彩的運用，空間的協調，深感欽佩。他這本有關麥克筆表現法的書，充份發揮了他的天份，而他說理清晰，絲絲入扣的本領，更是一份特色。

他是師大藝術系高材生，並在日本東京造形大學深造。除了在成人，淡江等校執教外，又曾任中華民國室內設計協會第一屆理事長等職，真是學驗俱豐。

于教授還具有作曲及樂器之天才，在色彩與音樂的世界裡，他是一位前途無限的精兵。

范光陵

一九八四、八、三十

Prof. King Wang is a distinguished form designer. In the year of 1980, he was invited by the University of Michigan to be a guest lecturer and was warmly welcomed by students and faculty members. Upon the requests of American students and oversea Chinese students, he promised them to write a special book about marker pen for them. I am so pleased to have the honor to write this preface based on that promise.

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Prof. Wang was graduated from National Taiwan Normal University and was further educated at the Tokyo Form Design University. Besides teaching at the National Cheng Kung University and Tamkang University, he once served as a president of the Chinese Industrial Design Association. He is rich both academically and professionally. Prof. Wang is also good in music composing and instrument playing. His musical works are very appealing in the world of color, music and design. he is a big fighter with great prospect.

*Prefaced by Dr. Kenneth Kuanling Fan, President,
National Academy of Management.*

Kenneth K. Fan

*Kenneth K. Fan, Ph.D
Fellow in University Administration
California State University, IR U.S.A.*

在講求效率的工商時代裏，時間就是金錢（Time is money）。時間對設計師而言，非常重要，因為一切設計工作都是按照時間表進行，所以，尖端的設計師必須按照嚴謹的時間表作業，麥克筆則是這個求新求速的設計行業最好的應用工具。

● 麥克筆有許多優點，除了速度快、效率高、攜帶方便之外，它還可以表現在任何材質之上（包括玻璃及壓克力），也能畫出完整的直線、圓和弧線，它更是唯一能大部分取代水彩、廣告顏料的理想工具。

具有良好工具性的麥克筆，早已受到世界各工業大國的矚目。根據我的研究，日本工業設計界已普遍使用麥克筆來做為設計表現的工具。如日本機械設計中心最著名的設計師兼教授清水吉治先生、日本千葉大學的豐口富、小坂勇二位教授，他們都是以麥克筆做為表現傳達的工具。此外，美國設計界的頭號天才SYDMEAD先生和德國著名的汽車設計師China Lai也都是用麥克筆來表達構思。可見，麥克筆已風行全世界。

民國六十二年，我接受台北房屋公司董事長葉條輝先生的委託，設計東海花園別墅當初，使用麥克筆的風氣未開，鮮有人知道麥克筆的功用。當時我以四天的時間用麥克筆畫出十套室內透視圖，透過房屋銷售的海報與說明書，使許多人瞭解麥克筆的表現與眾不同，一時之間，委託我以麥克筆作畫的人從各方蜂湧而至。我踏入建築界，迄今已十餘年，從三個人的小公司擴展至將近二十人的事務所，我一直都以麥克筆作各種造形設計，其中包括服裝、室內設計、包裝、機車、衛浴設備、電子產品、別墅及家具等等。我欣賞麥克筆那種乾脆俐落，說一不二的帥勁！它有一種強迫人服老的固執性，你無法邊想邊畫，因為它用肥皂洗不掉，用橡皮擦不掉，非得想好再畫，一氣呵成，不好只能重來！麥克筆這種擇善固執的獨特個性，使我覺得使用起來非常痛快！一九八〇年十月，我應美國密西根大學（The University of Michigan）之聘，前往講授麥克筆的用法。教學完後，有許多學生要求我將使用麥克筆的心得編寫成書，當時也承蒙Allen Samuel先生（美國密西根大學教授）及日本山城義孝教授（東京透視造形學院院長）的特別鼓勵，因而引發我寫這本書的動機。

在這產品生命週期短暫的時代為了爭取時效，使用麥克筆則是理所當然的事。今天，由於麥克筆的普遍，使我們的設計界和外國一樣都用這一流的工具，以作為共同的交流語言。為使工商界強調自我創造，也希望更多人利用麥克筆的技巧，來創造更多自主性的產品，因此，我決心把十多年來，使用麥克筆的經驗和技巧，作一個綜合性的歸納，編纂成冊，徹底公開，以期有更多人一起投入，為提升我們的設計水準而努力。

如今，這本書終於出版，感謝所有曾鼓勵支持我的朋友，以及同仁們的協助，更感謝趙榮輝、范光毅二位博士於百忙中抽空為本書作序，謹此致意，謝謝！

王健

謹序於台北
一九八四·八·廿九

In an industrial age that emphasizes efficiency, time is money. Time is an important factor to designer since all design works must go along with a schedule. Therefore, a top designer has to work to follow the schedule strictly. Marker pen is the best tool for this new and rapid growing market.

Marker pens have many merits: they are speedy, efficient, and portable. In addition, they can be used on any materials (such as glass and acrylic) and to draw complete straight lines, circles and arcs. Moreover, it is an ideal tool to replace much of the water coloring and advertisement coloring.

Marker pen, has already been noted by many advanced industrial countries. According to my study, marker pen is, at present, the most popular tool to make designs in Japan. For example, YOSHIHARU SHIMIZU the most famous designer of Japan Mechanical Design Center, GK Design Group; professors KYO TOYOGUCHI and YUKIO OGURA of Chiba University; Mr. SYD MEAD, the No.1 genius-designer of U.S.A.; and Mr. CHI-NA LAI, famous automobile designer of West Germany, are all good marker pen users in expressing their ideas. Evidently, marker pen is worldwide known.

In 1973, when I was trusted by Mr. TIAO-IIWEI YUEH, president of Taipei Housing Corp. to design Tunghai Garden Villa, the use of marker pen was not known in Taiwan, few people knew the function and usage of it. At that time, I spent four days to draw ten pieces of interior perspective drawings with a marker pen. Though the house selling and publicity, the unique expressing way of marker pen was awarded with attention, I became the busiest designer. For more than ten years since I stepped into the construction industry, my office has expanded from three to twenty persons. During these years, I have been using marker pen to make va-

rious designs: including clothing, interior design, packaging, motorcycle, toilet equipment, electronic products, villa, furniture, etc. I really appreciate the unique manly style of the marker pen. It's stubbornness forces you to think. With it, you have no way to think twice while you are drawing. You have to think over thoroughly before you draw because it can be neither washed off nor erased. The only thing you can do, when a drawing is unsatisfactory, is to throw it away and do another one. I really like this unique stubbornness. It is a satisfying experience! In October 1980, I was invited by the University of Michigan to teach the application of marker pen. After teaching, many students wanted me to compile my experience in marker pen in print. Mr. ALLEN SAMUEL (professor of the University of Michigan) and professor MASAHKO YAMASHIRO of Japan (Tokyo Design College) also gave me special encouragements and motivations to write this book. Because the life cycle of a product recently becomes very short, time is most important. It is natural to turn to marker pen. Today, the popularity of marker pen gives us a good chance to communicate better with other countries by the use of the same tool.

In order to make industry emphasize our self-creation; to create more independent products through marker pen, I decide to combine my years of experiences and techniques in marker pen in a book, so that more people will join us and to upgrade our level of design.

Thanks to my friends and colleagues who encouraged and supported me through the publication of this book. Especially, I thank Dr. RONG-YAO CHAO and Dr. KENNETH KUANG-LING FAN for their efforts to write prefaces for this book while they are so busy in their own regular works.

King Wang in Taipei
Aug. 29, 1984.

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近二十年來，世界之科技發展突飛猛進，其影響之廣大，上自太空探險，下至民衆日常生活，無遠弗屆，日新月异，是故，人類生活之基本素質——德、智、體、群、美五育，無論是得自先天之秉賦，或是後天的培育，其意識型態、觀念與一生奉為圭臬之準則，皆隨著科學技術的發展而持續的改變，以於科技化的社會中求得適應與提昇自我之生活品質。特別是在民衆生活富足之後，對於「美」的追求與鑑賞層次，日益提高，而一切工業產品也皆是技術與藝術融合的結晶。「美」，不僅可以消弭人際競爭之壓力，陶冶人生，「美」，亦可使工業化之社會導向和諧與高品質之境界。

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National Academy of Management.*

Kenneth K. Fan

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在講求效率的工商時代裏，時間就是金錢（Time is money）。時間對設計師而言，非常重要，因為一切設計工作都是按照時間表進行，所以，尖端的設計師必須按照嚴謹的時間表作業，麥克筆則是這個求新求速的設計行業最好的應用工具。

● 麥克筆有許多優點，除了速度快、效率高、攜帶方便之外，它還可以表現在任何材質之上（包括玻璃及壓克力），也能畫出完整的直線、圓和弧線，它更是唯一能大部分取代水彩、廣告顏料的理想工具。

具有良好工具性的麥克筆，早已受到世界各工業大國的矚目。根據我的研究，日本工業設計界已普遍使用麥克筆來做為設計表現的工具。如日本機械設計中心最著名的設計師兼教授清水吉治先生、日本千葉大學的豐口富、小坂勇二位教授，他們都是以麥克筆做為表現傳達的工具。此外，美國設計界的頭號天才SYDMEAD先生和德國著名的汽車設計師China Lai也都是用麥克筆來表達構思。可見，麥克筆已風行全世界。

民國六十二年，我接受台北房屋公司董事長葉條輝先生的委託，設計東海花園別墅當初，使用麥克筆的風氣未開，鮮有人知道麥克筆的功用。當時我以四天的時間用麥克筆畫出十張室內透視圖，透過房屋銷售的海報與說明書，使許多人瞭解麥克筆的表現與眾不同，一時之間，委託我以麥克筆作畫的人從各方蜂湧而至。我踏入建築界，迄今已十餘年，從三個人的小公司擴展至將近二十人的事務所，我一直都以麥克筆作各種造形設計，其中包括服裝、室內設計、包裝、機車、衛浴設備、電子產品、別墅及家具等等。我欣賞麥克筆那種乾脆俐落，說一不二的帥勁！它有一種強迫人服老的固執性，你無法邊想邊畫，因為它用肥皂洗不掉，用橡皮擦不掉，非得想好再畫，一氣呵成，不好只能重來！麥克筆這種擇善固執的獨特個性，使我覺得使用起來非常痛快！一九八〇年十月，我應美國密西根大學（The University of Michigan）之聘，前往講授麥克筆的用法。教學完後，有許多學生要求我將使用麥克筆的心得編寫成書，當時也承蒙Allen Samuel先生（美國密西根大學教授）及日本山城義孝教授（東京透視造形學院院長）的特別鼓勵，因而引發我寫這本書的動機。

在這產品生命週期短暫的時代為了爭取時效，使用麥克筆則是理所當然的事。今天，由於麥克筆的普遍，使我們的設計界和外國一樣都用這一流的工具，以作為共同的交流語言。為使工商界強調自我創造，也希望更多人利用麥克筆的技巧，來創造更多自主性的產品，因此，我決心把十多年來，使用麥克筆的經驗和技巧，作一個綜合性的歸納，編纂成冊，徹底公開，以期有更多人一起投入，為提升我們的設計水準而努力。

如今，這本書終於出版，感謝所有曾鼓勵支持我的朋友，以及同仁們的協助，更感謝趙榮輝、范光毅二位博士於百忙中抽空為本書作序，謹此致意，謝謝！

王健

謹序於台北
一九八四·八·廿九

In an industrial age that emphasizes efficiency, time is money. Time is an important factor to designer since all design works must go along with a schedule. Therefore, a top designer has to work to follow the schedule strictly. Marker pen is the best tool for this new and rapid growing market.

Marker pens have many merits: they are speedy, efficient, and portable. In addition, they can be used on any materials (such as glass and acrylic) and to draw complete straight lines, circles and arcs. Moreover, it is an ideal tool to replace much of the water coloring and advertisement coloring.

Marker pen, has already been noted by many advanced industrial countries. According to my study, marker pen is, at present, the most popular tool to make designs in Japan. For example, YOSHIHARU SHIMIZU the most famous designer of Japan Mechanical Design Center, GK Design Group; professors KYO TOYOGUCHI and YUKIO OGURA of Chiba University; Mr. SYD MEAD, the No.1 genius-designer of U.S.A.; and Mr. CHI-NA LAI, famous automobile designer of West Germany, are all good marker pen users in expressing their ideas. Evidently, marker pen is worldwide known.

In 1973, when I was trusted by Mr. TIAO-IIWEI YUEH, president of Taipei Housing Corp. to design Tunghai Garden Villa, the use of marker pen was not known in Taiwan, few people knew the function and usage of it. At that time, I spent four days to draw ten pieces of interior perspective drawings with a marker pen. Though the house selling and publicity, the unique expressing way of marker pen was awarded with attention, I became the busiest designer. For more than ten years since I stepped into the construction industry, my office has expanded from three to twenty persons. During these years, I have been using marker pen to make va-

rious designs: including clothing, interior design, packaging, motorcycle, toilet equipment, electronic products, villa, furniture, etc. I really appreciate the unique manly style of the marker pen. It's stubbornness forces you to think. With it, you have no way to think twice while you are drawing. You have to think over thoroughly before you draw because it can be neither washed off nor erased. The only thing you can do, when a drawing is unsatisfactory, is to throw it away and do another one. I really like this unique stubbornness. It is a satisfying experience! In October 1980, I was invited by the University of Michigan to teach the application of marker pen. After teaching, many students wanted me to compile my experience in marker pen in print. Mr. ALLEN SAMUEL (professor of the University of Michigan) and professor MASAHKO YAMASHIRO of Japan (Tokyo Design College) also gave me special encouragements and motivations to write this book. Because the life cycle of a product recently becomes very short, time is most important. It is natural to turn to marker pen. Today, the popularity of marker pen gives us a good chance to communicate better with other countries by the use of the same tool.

In order to make industry emphasize our self-creation; to create more independent products through marker pen, I decide to combine my years of experiences and techniques in marker pen in a book, so that more people will join us and to upgrade our level of design.

Thanks to my friends and colleagues who encouraged and supported me through the publication of this book. Especially, I thank Dr. RONG-YAO CHAO and Dr. KENNETH KUANG-LING FAN for their efforts to write prefaces for this book while they are so busy in their own regular works.

King Wang in Taipei
Aug. 29, 1984.

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