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计算机视觉、图形学和图像处理的核心概念

[美] 阿娣提·玛珠德 (Aditi Majumder) M. 戈皮 (M. Gopi) 著

加利福尼亚大学欧文分校

赵启军 涂欢 梁洁 译

四川大学

Introduction to Visual Computing

Core Concepts in Computer Vision, Graphics, and Image Processing

Introduction to VISUAL COMPUTING

Core Concepts in Computer Vision,
Graphics, and Image Processing

Aditi Majumder
M. Gopi



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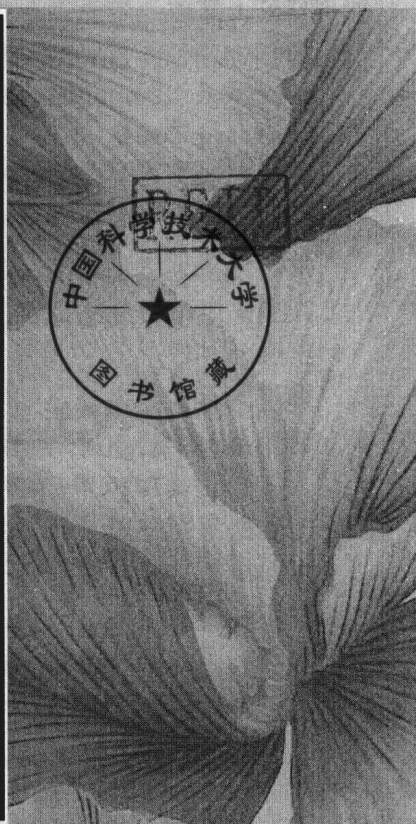
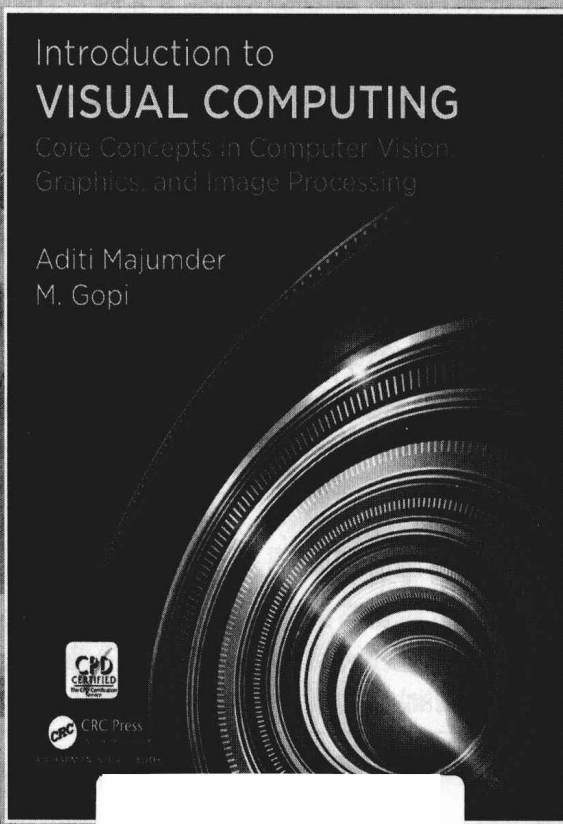
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图书在版编目 (CIP) 数据

视觉计算基础：计算机视觉、图形学和图像处理的核心概念 / (美) 阿娣提·玛珠德 (Aditi Majumder), (美) M. 戈皮 (M. Gopi) 著; 赵启军, 涂欢, 梁洁译. —北京: 机械工业出版社, 2019.4

(计算机科学丛书)

书名原文: Introduction to Visual Computing: Core Concepts in Computer Vision, Graphics, and Image Processing

ISBN 978-7-111-62286-4

I. 视… II. ①阿… ②M… ③赵… ④涂… ⑤梁… III. 计算机视觉 IV. TP302.7

中国版本图书馆 CIP 数据核字 (2019) 第 051232 号

本书版权登记号: 图字 01-2018-2742

Introduction to Visual Computing: Core Concepts in Computer Vision, Graphics, and Image Processing by Aditi Majumder, M. Gopi (ISBN 978-1-4822-4491-5).

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本书是视觉计算领域的入门教材, 涵盖了计算机视觉、图形学和图像处理所需的基础知识。书中首先介绍核心数学概念; 然后分别讲解基于图像、几何和辐射度的视觉计算, 涉及卷积、谱分析、特征检测、变换、对极几何、光强和色彩等技术; 最后讨论视觉内容合成, 展示了创建计算机虚拟世界的基本流程。

本书既可用于高等院校计算机专业研究生和本科生的教学, 也是专业人员的有益参考。

出版发行: 机械工业出版社 (北京市西城区百万庄大街 22 号 邮政编码: 100037)

责任编辑: 卢璐

责任校对: 殷虹

印刷: 北京诚信伟业印刷有限公司

版次: 2019 年 4 月第 1 版第 1 次印刷

开本: 185mm × 260mm 1/16

印张: 19 (含 1.25 印张彩插)

书号: ISBN 978-7-111-62286-4

定价: 99.00 元

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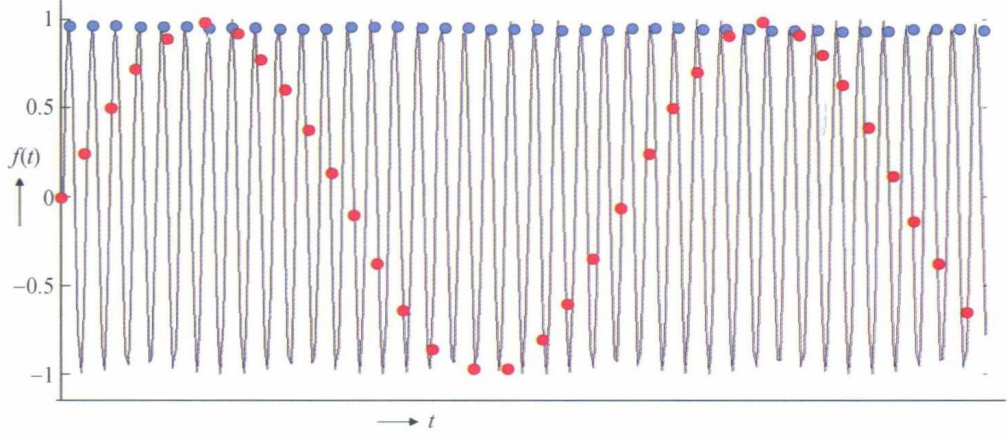


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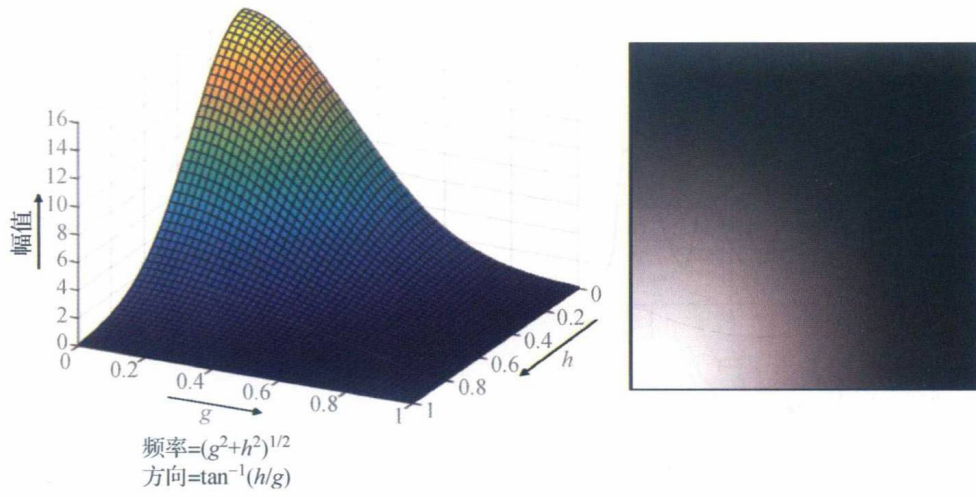


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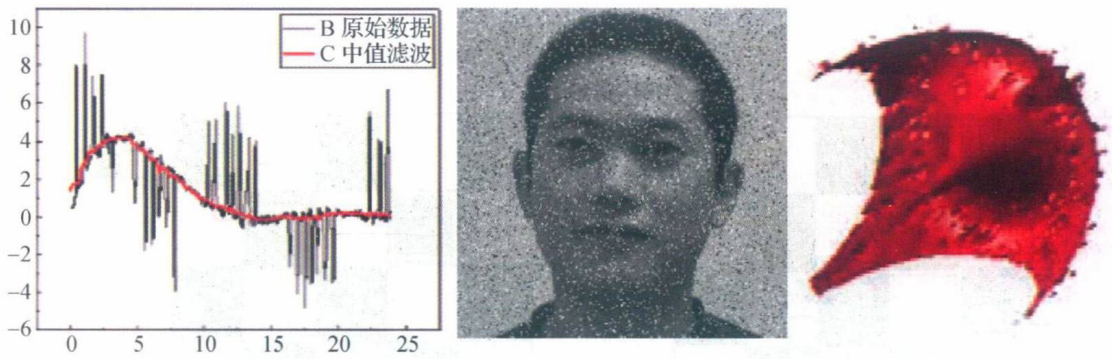


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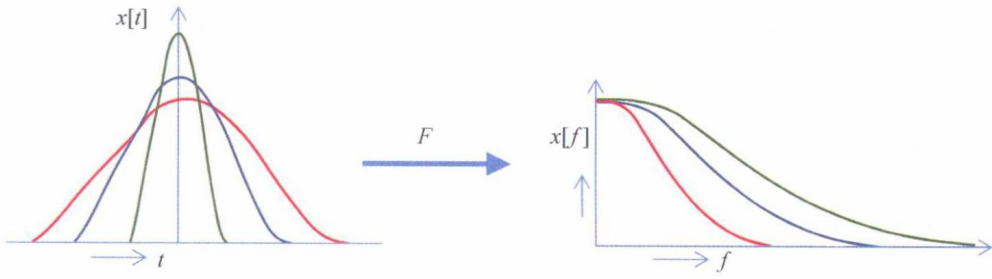


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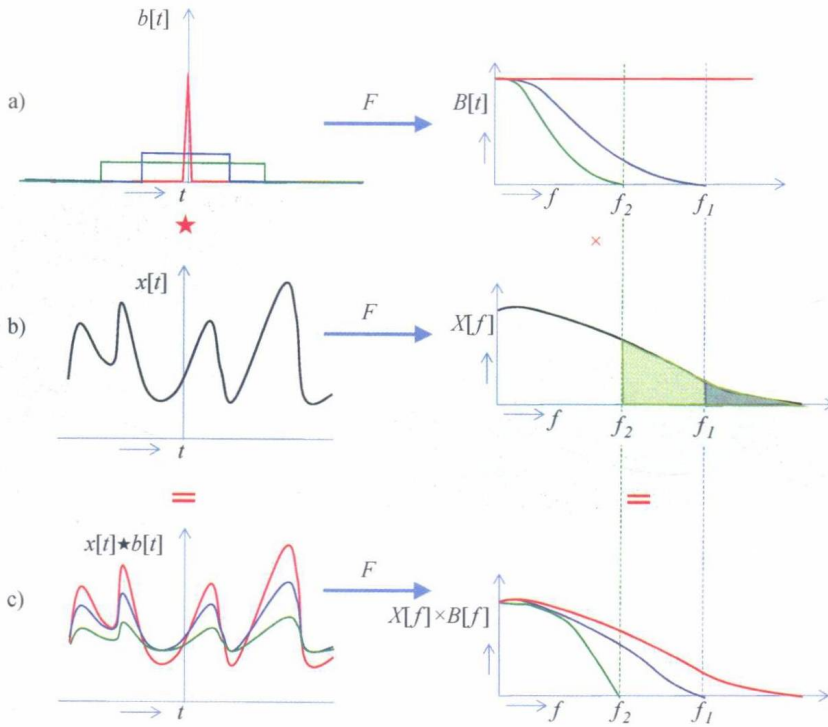


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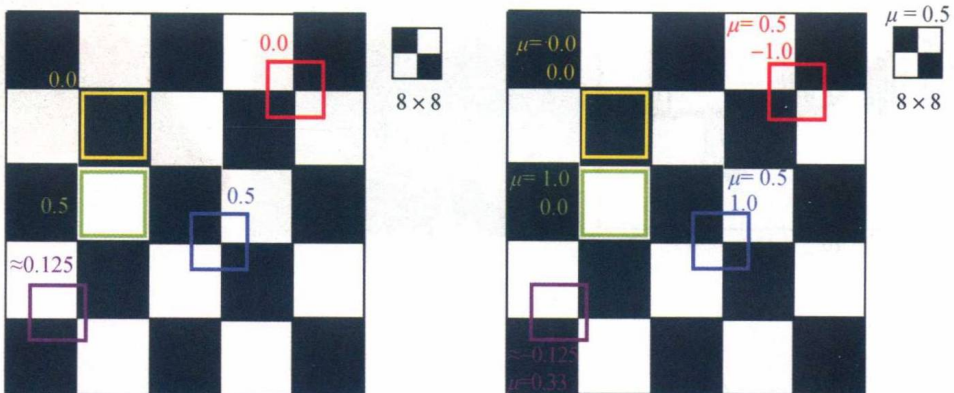


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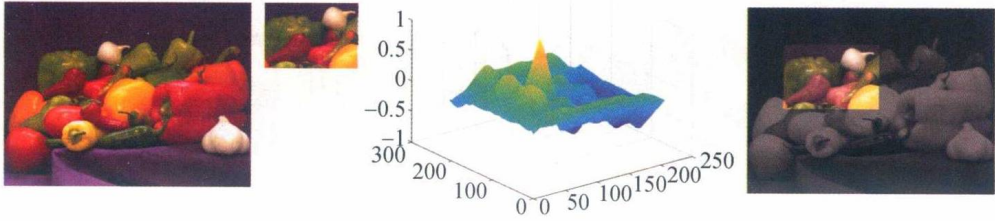


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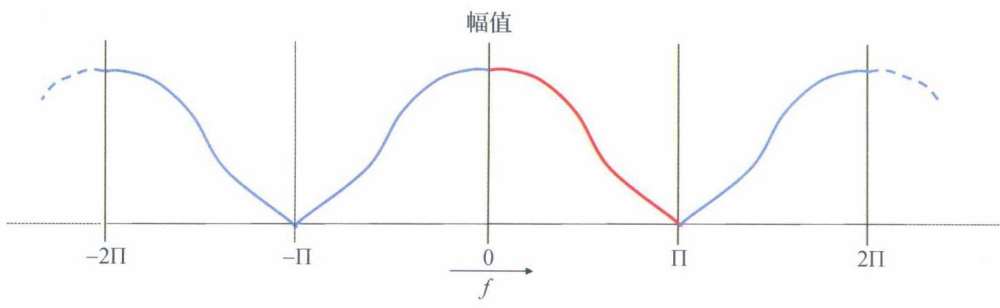


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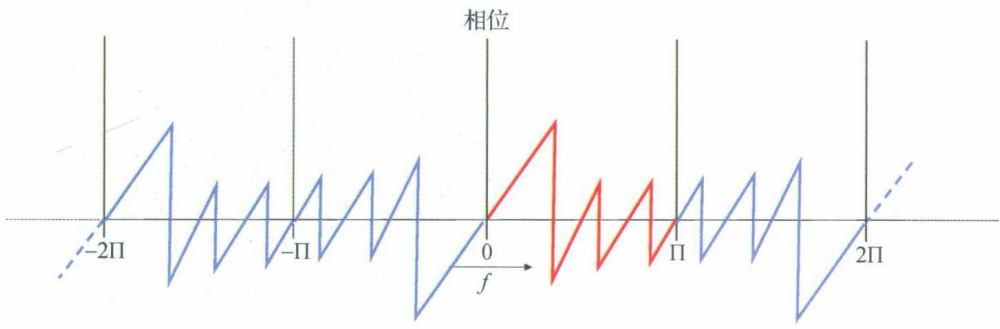


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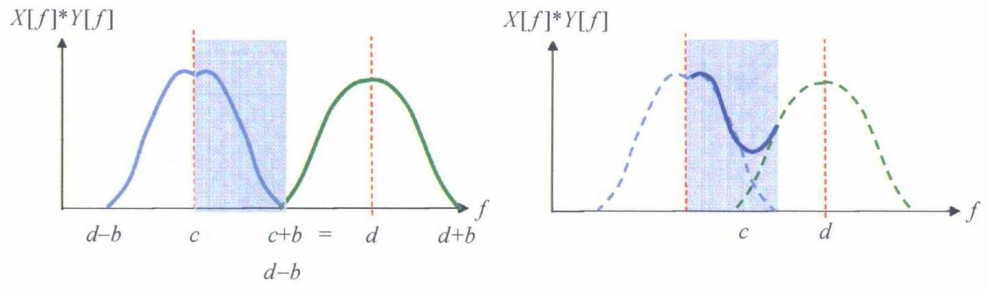


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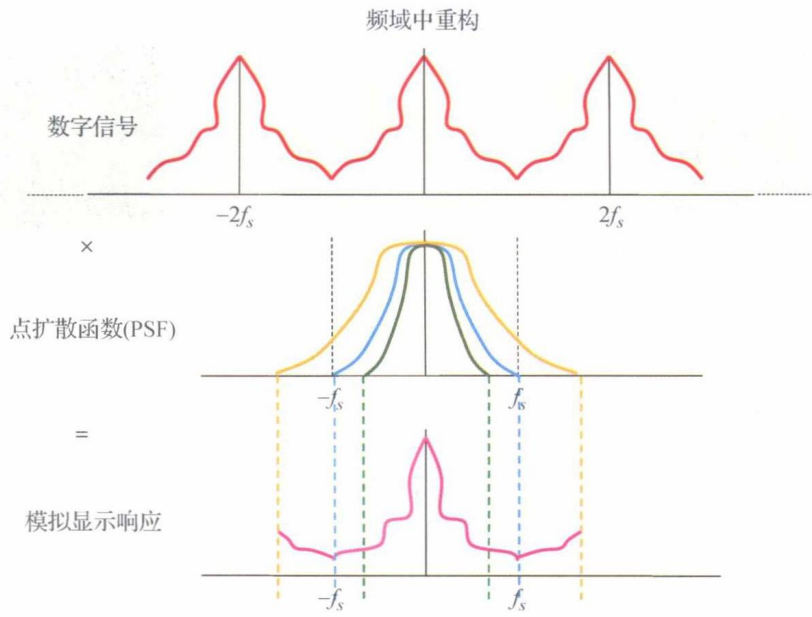


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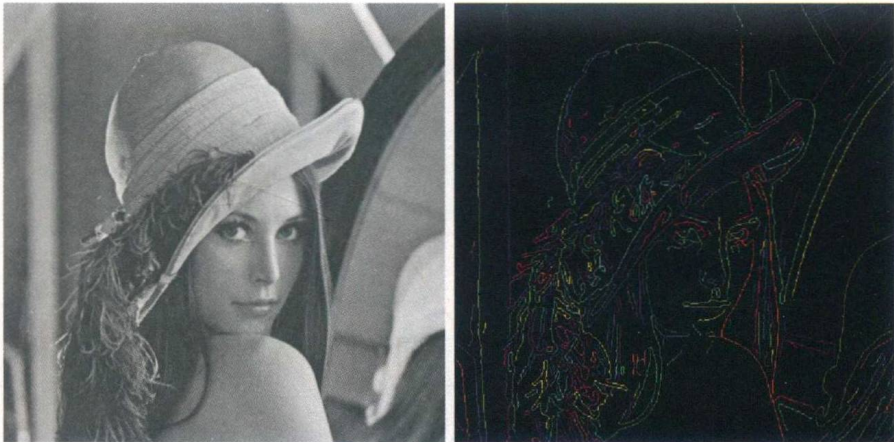


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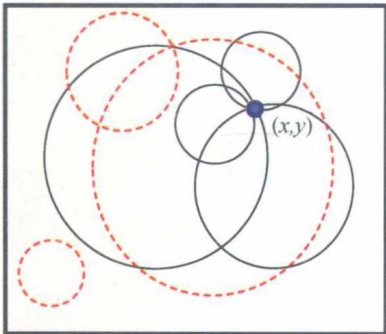


图 5-22

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|--|----|----|----|----|--|
| | | | | | |
| | | B1 | B2 | B3 | |
| | A1 | A2 | A3 | B6 | |
| | A4 | A5 | A6 | B9 | |
| | A7 | A8 | A9 | | |
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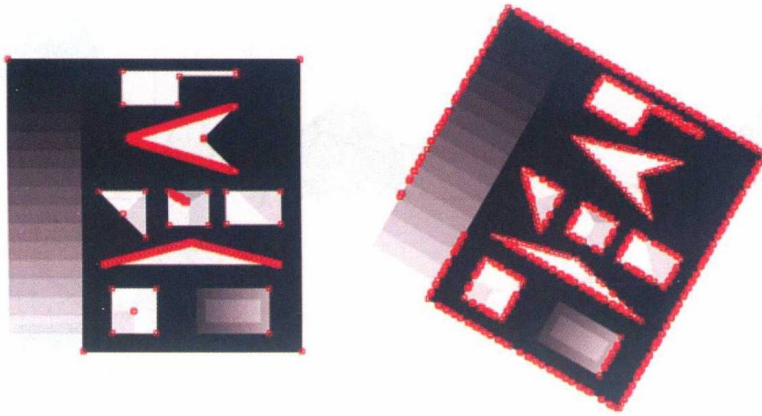


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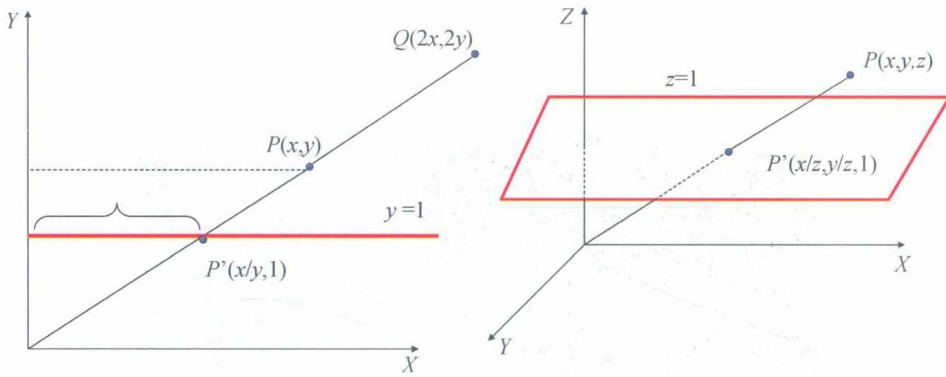


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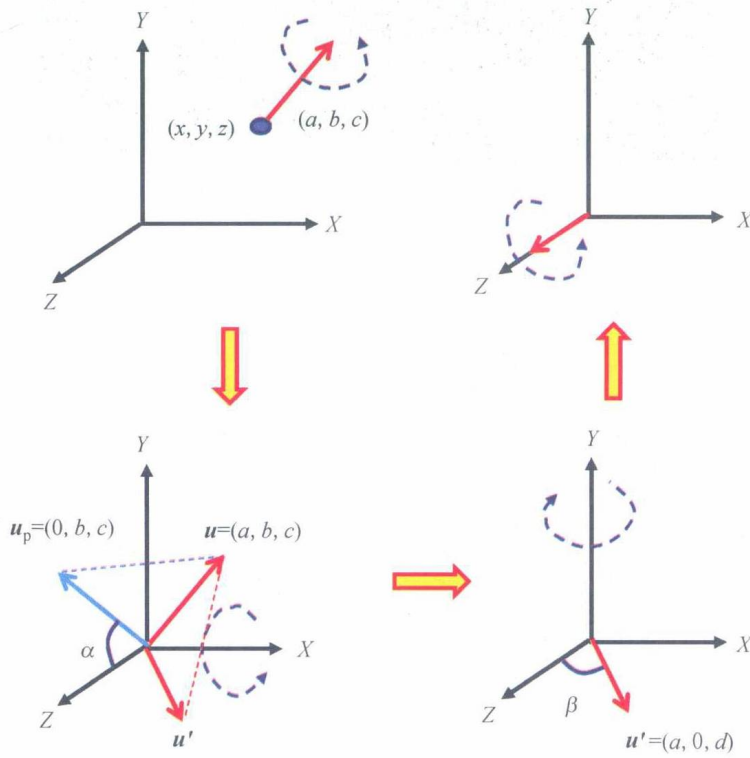


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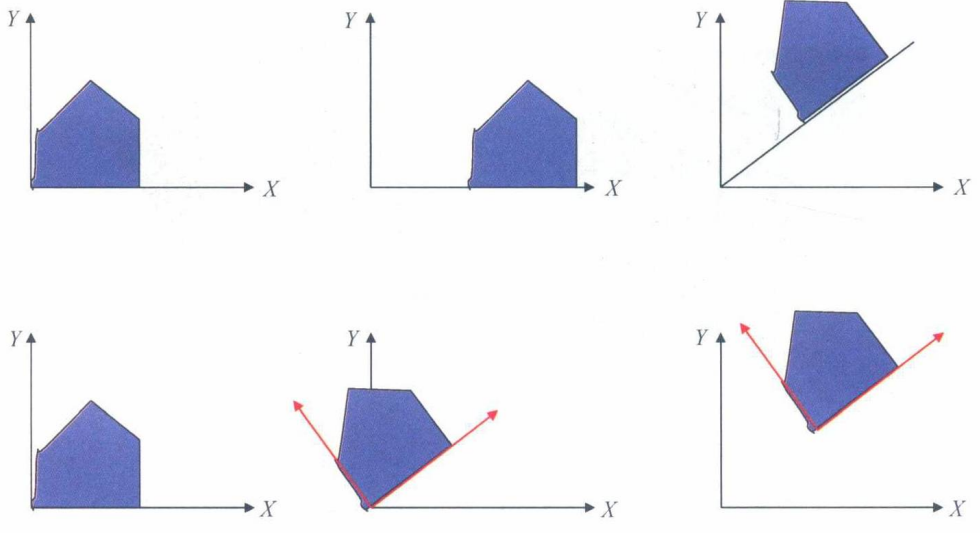


图 6-12



图 7-4

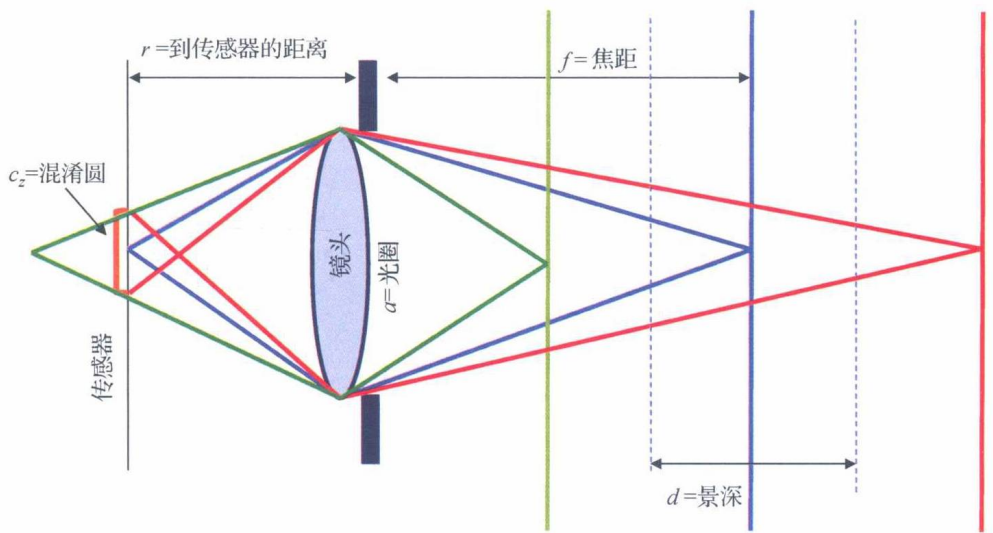


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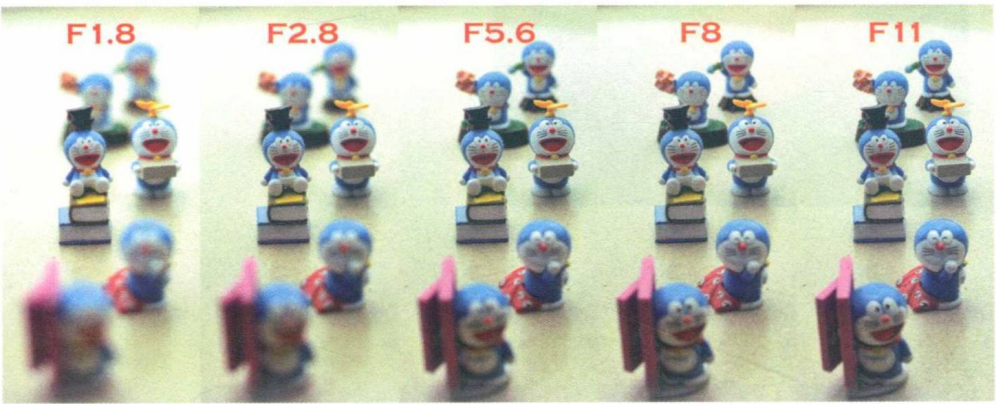
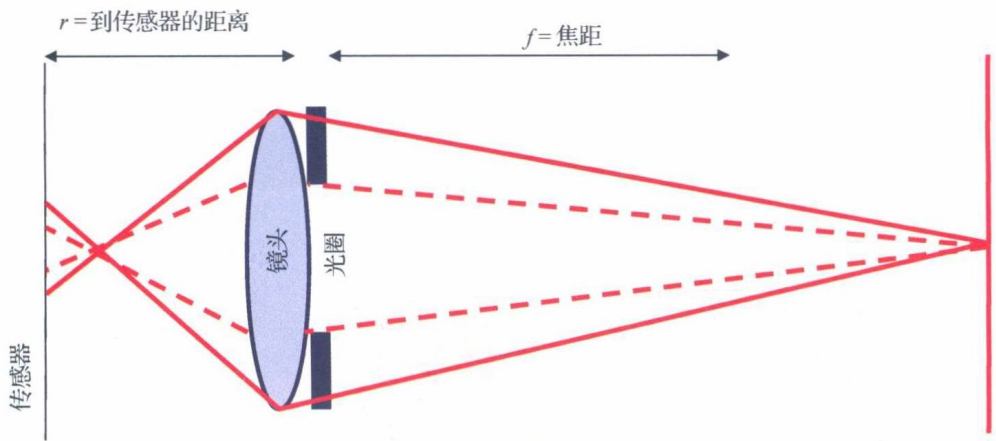


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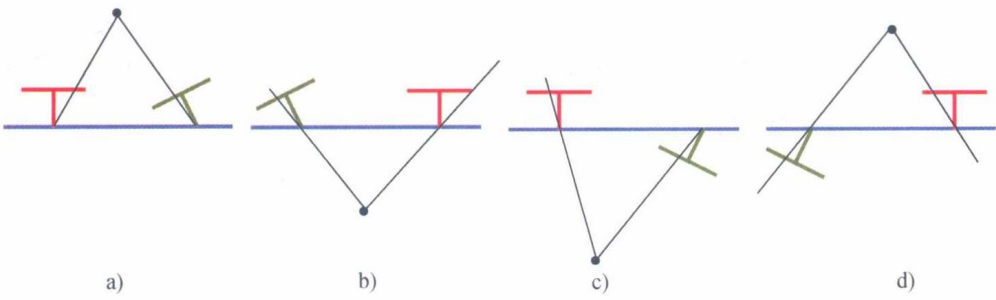


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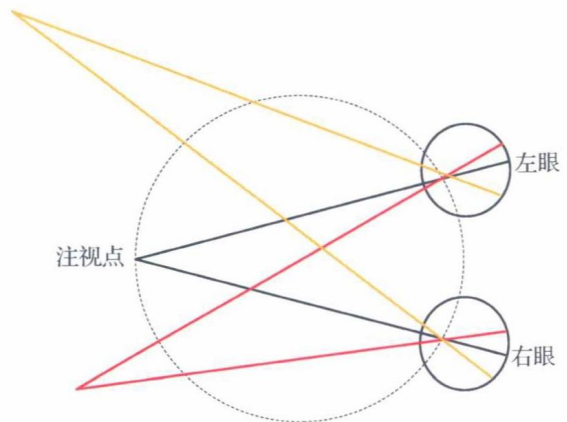
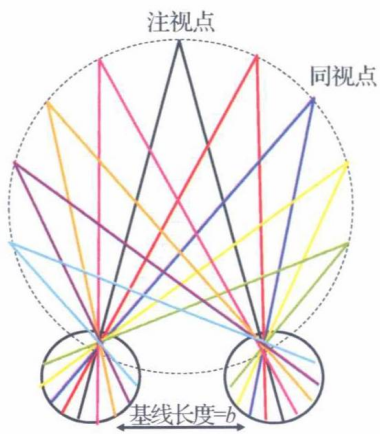


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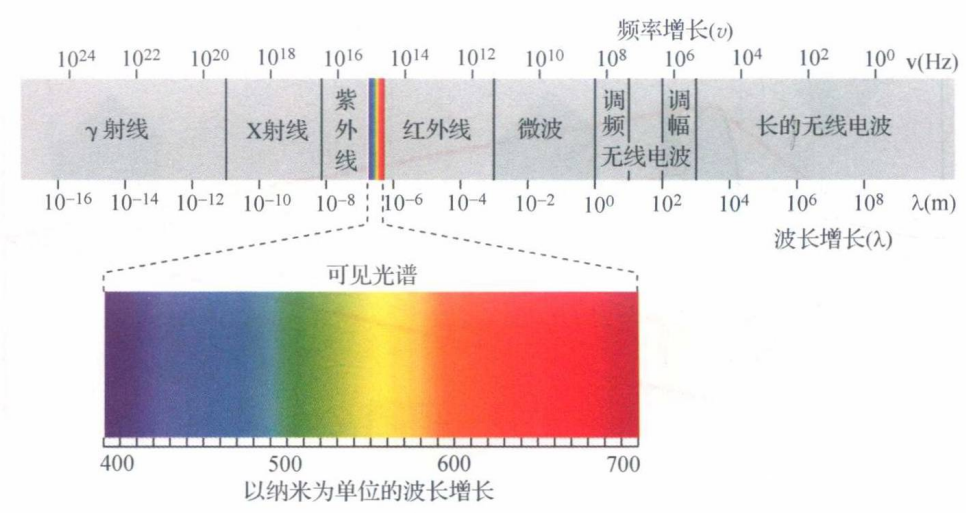


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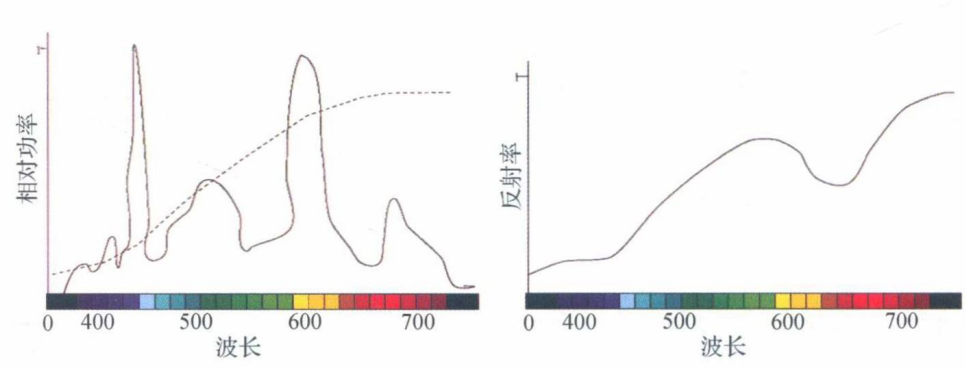


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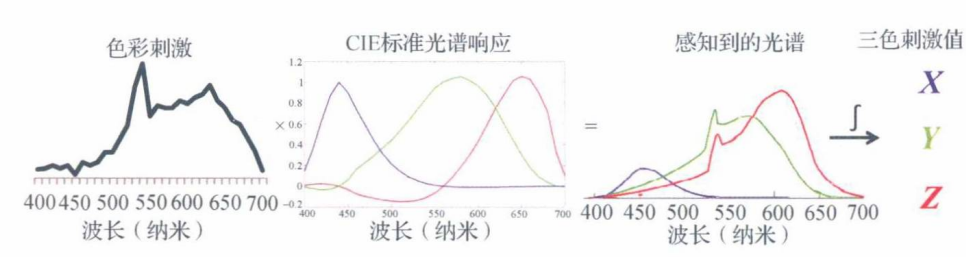


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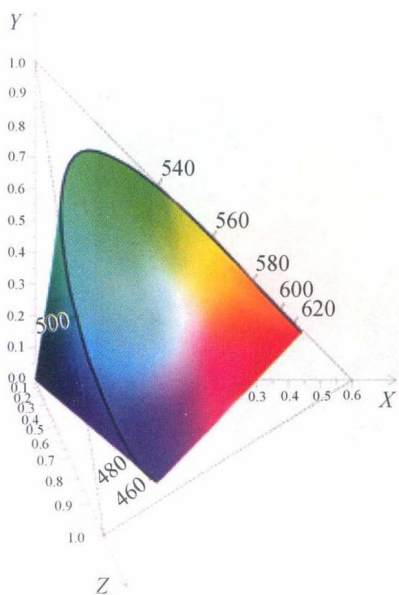


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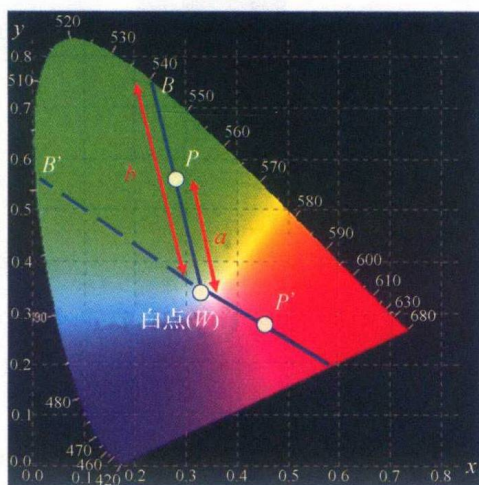
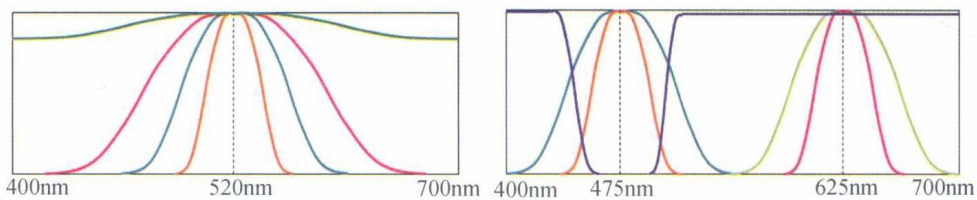


图 9-8



9 章习题 1

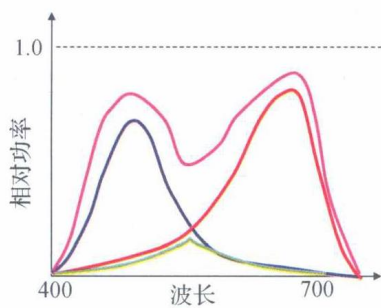


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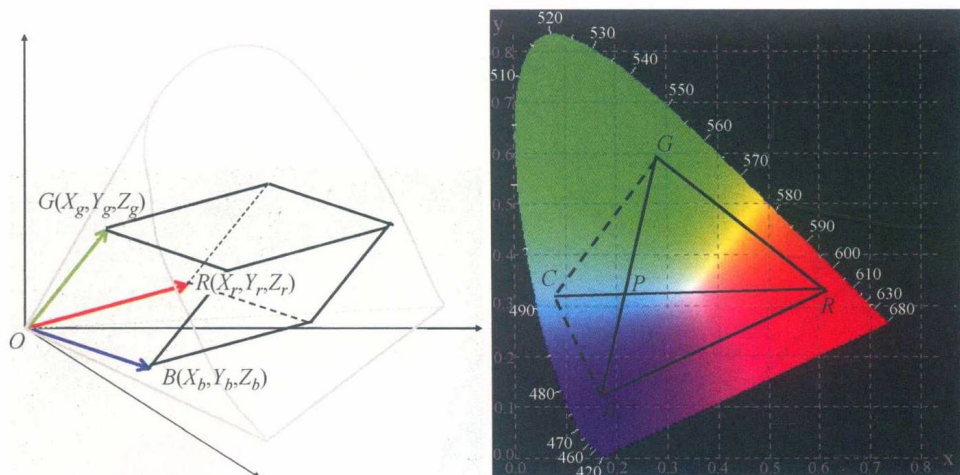


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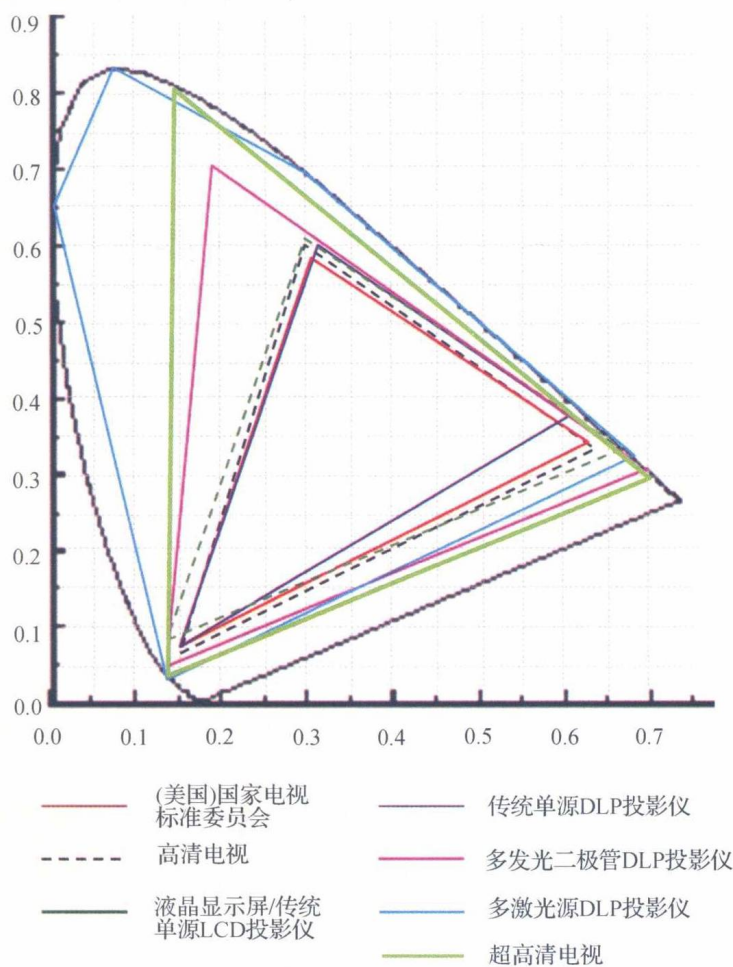


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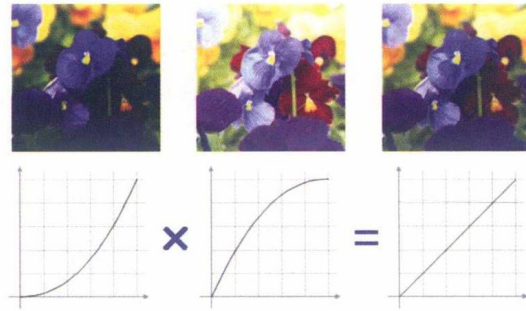


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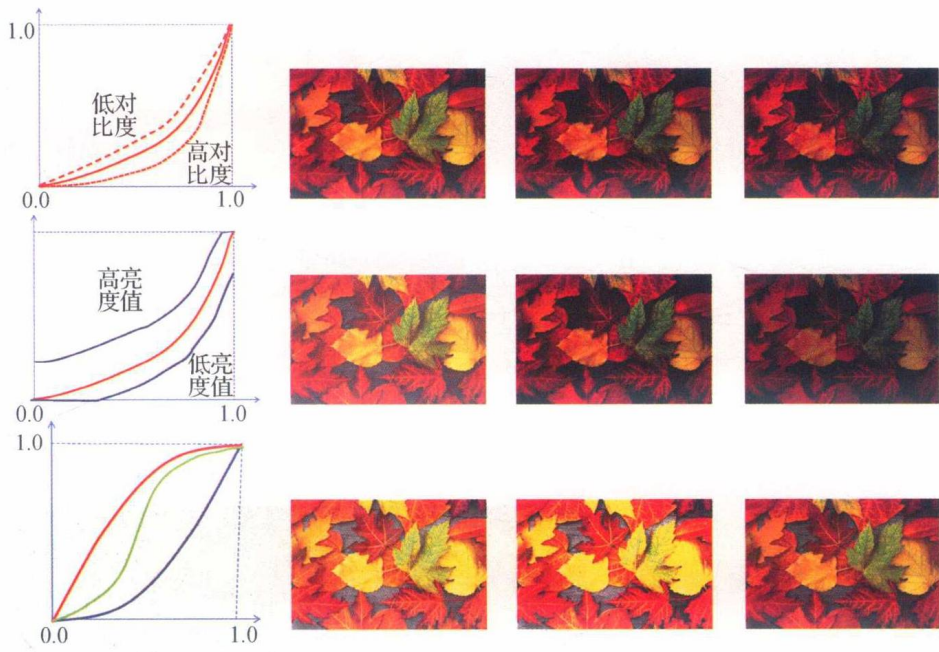


图 10-5



图 10-6

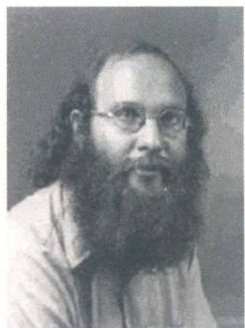


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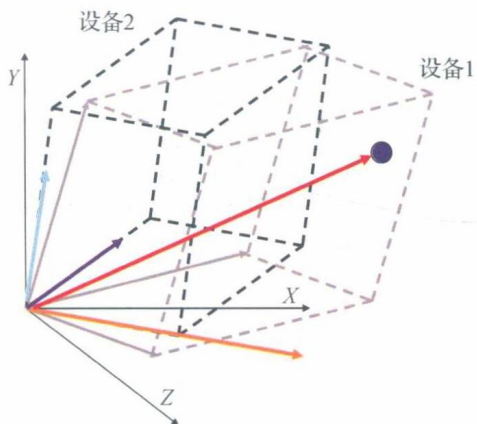


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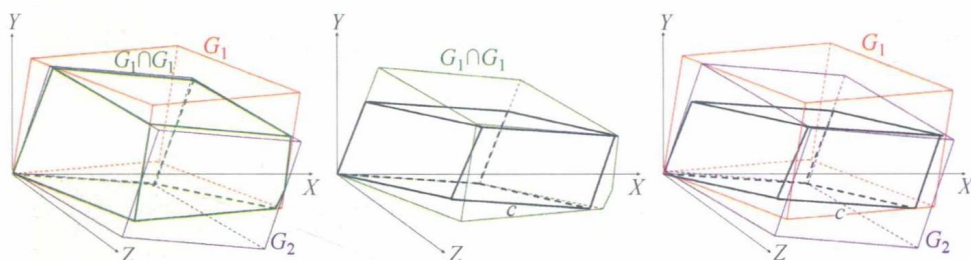


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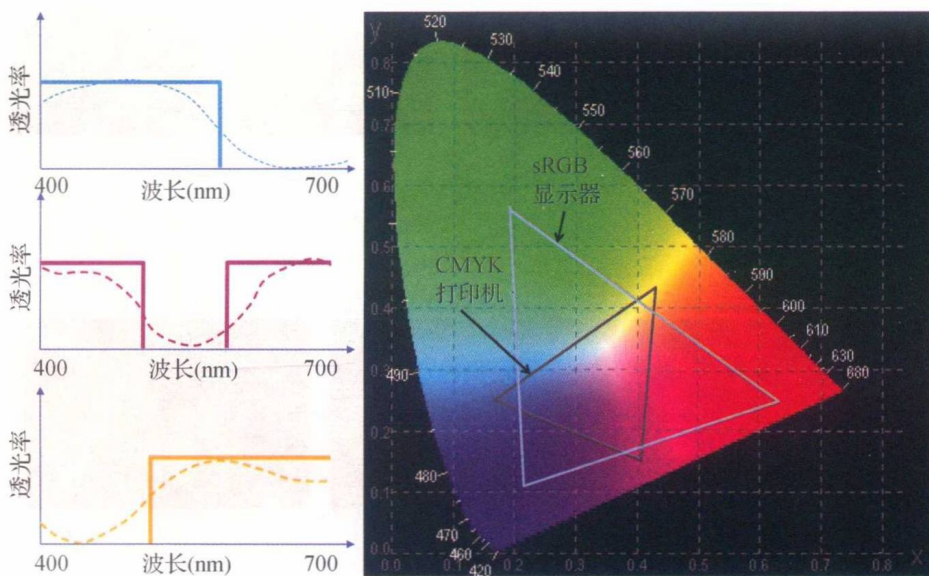


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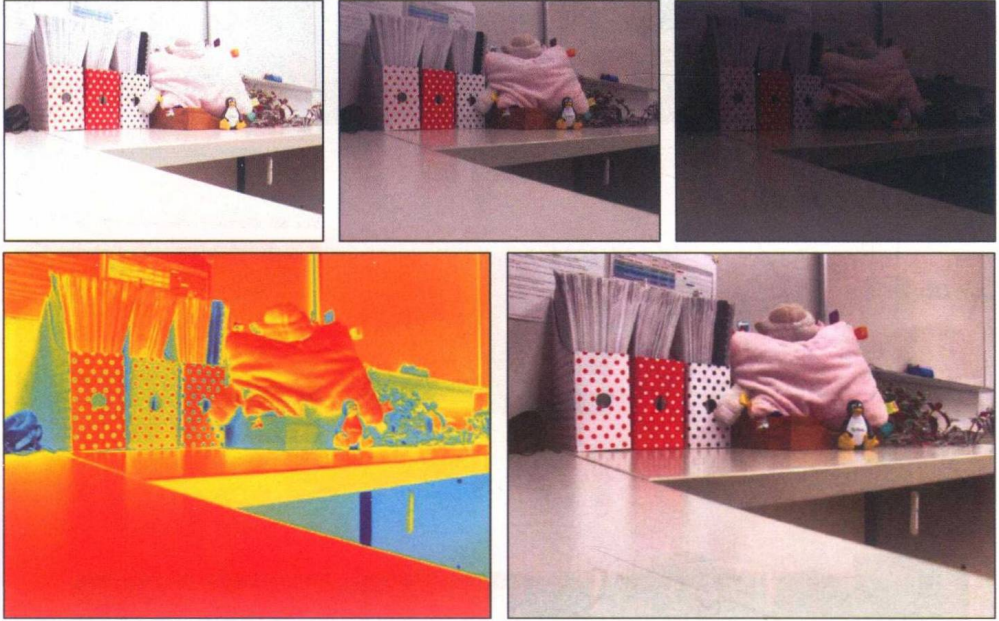


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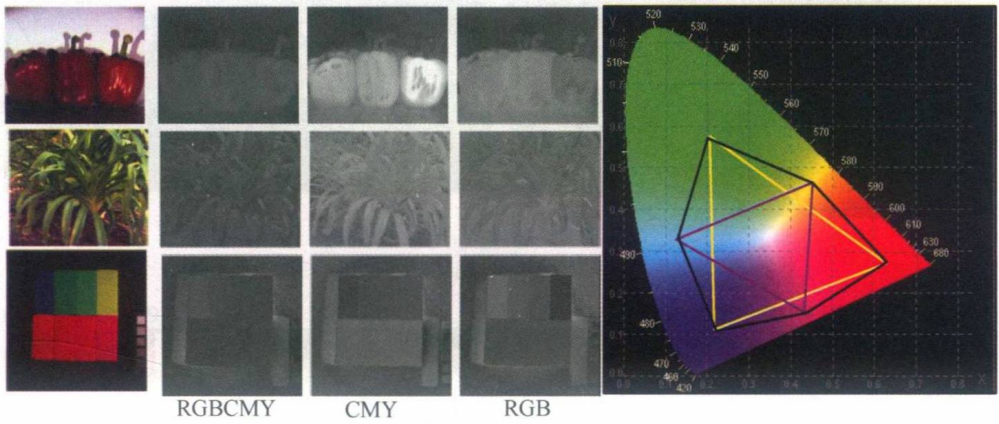


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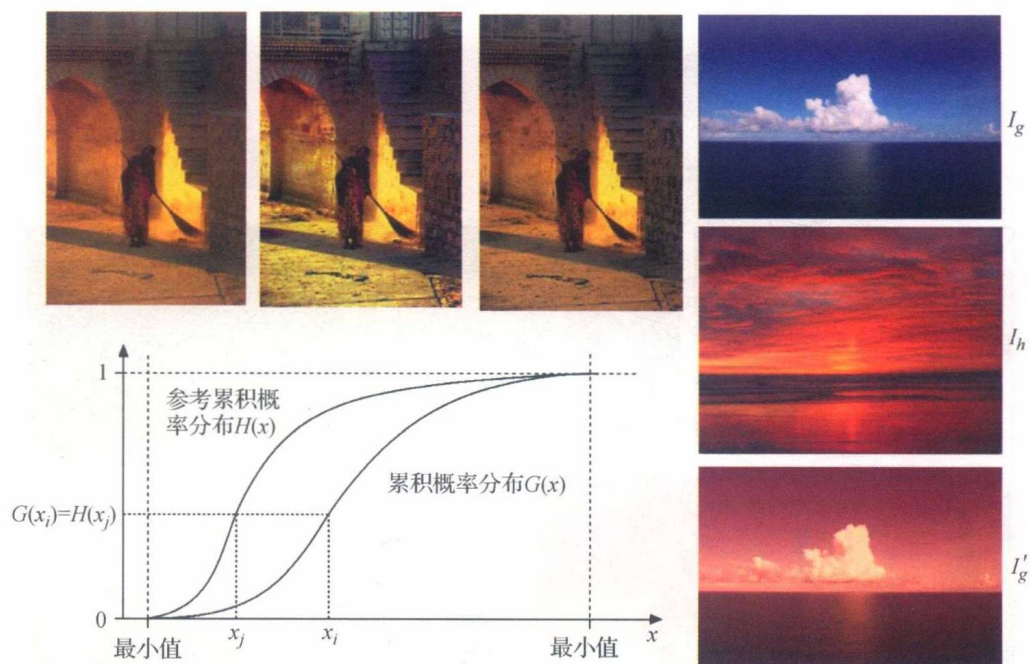


图 11-8



图 11-16



图 11-17