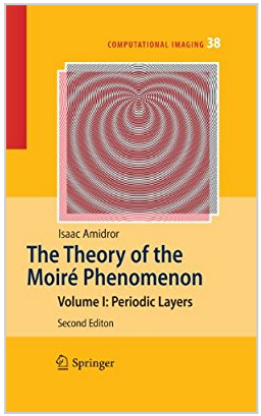

The Theory of the Moiré Phenomenon: Volume I: Periodic Layers: 38 (Computational Imaging and Vision)

By Isaac Amidror

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Since the first edition of this book was published several new developments have been made in the field of the moiré theory. The most important of these concern new results that have recently been obtained on moiré effects between correlated aperiodic (or random) structures, a subject that was completely absent in the first edition, and which appears now for the first time in a second, separate volume. This also explains the change in the title of the present volume, which now includes the subtitle “Volume I: Periodic Layers”. This subtitle has been added to clearly distinguish the present volume from its new companion, which is subtitled “Volume II: Aperiodic Layers”. It should be noted, however, that the new subtitle of the present volume may be somewhat misleading, since this book also treats (in Chapters 10 and 11) moiré effects between repetitive layers, which are, in fact, geometric transformations of periodic layers, that are generally no longer periodic in themselves. The most suitable subtitle for the present volume would therefore have been “Periodic or Repetitive Layers”, but in the end we have decided on the shorter version.

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Editorial Review

Review

From the reviews:

"This book on Moire phenomena in aperiodic layers appears as a second volume of the same author after the one dedicated to the more familiar periodic case . the knowledge of the first volume is not required for the understanding of the second volume, which covers, so to say, the whole field. The exposition is exemplary. Each chapter is complemented by many nicely commented problems and exercises, and in one of the appendices one finds the glossary of the main terms." (Aloysio Janner, Zentralblatt MATH, Vol. 1130 (8), 2008)

"The present book is devoted to the theory of the Moire phenomenon (MP) for aperiodic layers. the book is self-contained, the theory is clearly presented, there are a lot of interesting examples and exercises, and all terms are carefully defined and explained. the present book is an excellent monograph on GP domains. will constitute a definitive reference on Moire effects for years to come." (D. Stanomir, Mathematical Reviews, Issue 2009t

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From the Back Cover

This is a new, revised and updated edition of the original book by Isaac Amidror. It presents the most comprehensive and methodical work on the theory of the moiré phenomenon, providing a full general-purpose and application-independent exposition of this fascinating effect. Based on the Fourier theory, it leads the reader through the various phenomena which occur in the superposition of repetitive layers, both in the image and in the spectral domains. The first chapters of the book present the basic theory which covers the superposition of monochrome, periodic layers. In later chapters the theory is extended to the even more interesting cases of polychromatic moirés and moirés between repetitive, non-periodic layers. Throughout the whole text the book favours a pictorial, intuitive approach which is supported by mathematics, and the discussion is accompanied by a large number of figures and illustrative examples, some of which are visually attractive and even spectacular.

This book is intended for students, scientists, engineers and any readers who wish to widen their knowledge of the moiré effect. It also offers a beautiful demonstration of the Fourier theory and its relationship with other fields of mathematics and science. The prerequisite mathematical background is limited to an elementary familiarity with calculus and with the Fourier theory.

Users Review

From reader reviews:

Alma Young:

As people who live in the particular modest era should be change about what going on or data even knowledge to make these keep up with the era that is certainly always change and move ahead. Some of you

maybe will update themselves by examining books. It is a good choice for you but the problems coming to you is you don't know which one you should start with. This The Theory of the Moiré Phenomenon: Volume I: Periodic Layers: 38 (Computational Imaging and Vision) is our recommendation so you keep up with the world. Why, because book serves what you want and wish in this era.

Paul Williams:

This book untitled The Theory of the Moiré Phenomenon: Volume I: Periodic Layers: 38 (Computational Imaging and Vision) to be one of several books that will best seller in this year, that is because when you read this publication you can get a lot of benefit upon it. You will easily to buy this book in the book retailer or you can order it via online. The publisher in this book sells the e-book too. It makes you quickly to read this book, since you can read this book in your Mobile phone. So there is no reason to you personally to past this guide from your list.

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Dorcas Rogers:

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