Holographic Microscopy

of
Phase Microscopic Objects
Theory and Practice

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This book is devoted to Teachers of ours

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Preface

Holography was born as a “new microscopy principle”. Holographic microscopy is an important practical application of holography. It has a lot of unique advantages which open new possibility in study of phase microscopic objects.

Application of holographic and digital methods in light microscopy has made it possible not only to obtain 3D images of untreated cells but also to measure their morphological parameters. The proposed book contains either theory, or practice of classical and holographic microscopy of phase microscopic objects.

The main attention is paid to practical applications. Separate chapters of the book are devoted to study of 3D morphology of human blood erythrocytes and thin films.

We think that the book will be of some interest for physicists, physicians and students of the corresponding specialties.

Tatyana Tishko

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Contents

Preface	vii
Introduction	1
Chapter 1	
Classical Microscopy and Methods of Phase Microscopic Objects Visualization	5
1.1 The theory of object imaging by microscope	5
1.2 Phase microscopic objects	8
1.3 Interference phenomenon	9
1.4 F. Zernike's phase-contrast method	11
1.5 The interference-contrast method	13
1.6 The polarization-contrast method	17
Chapter 2	
Holography and Holographic Microscopy	21
2.1 Holography as the method of wave recording and reconstruction	21
2.2 History of holographic microscopy	25
Chapter 3	
Holographic Methods of Phase Microscopic Object Imaging and the Digital Holographic Interference Microscope	31
3.1 Holographic phase-contrast method	31
3.2 Holographic interferometry in fringes of finite width	38
3.3 Comparison of the holographic methods	43
3.4 Sensitivity of the holographic methods	46
3.5 The holographic polarization-contrast method	47
3.6 The digital holographic interference microscope	50
3.7 Digital holographic microscopy	55

Chapter 4	
Application of the Digital Holographic Interference Microscope for Blood Cells Study	57
4.1 DHIM study of 3D morphology of blood erythrocytes	57
4.2 Ozone therapy influence on 3D morphology of blood erythrocytes	65
4.3 Blood erythrocytes in hematological diseases	67
4.4 Blood erythrocytes of pregnant women and newborns	70
4.5 <i>Gamma</i> -radiation influence on blood erythrocytes	72
4.6 Conclusions	74
Chapter 5	
DHIM Study of Thin Transparent Films	77
Conclusions	81
References	83
Bibliography	87
Index	91