#### CONTENTS

1 Prelude

### ■ The Roots of a Field in Biology

- 2 A Field in Regeneration
- 3 A Field that Guides Generation
- 4 Does a Field also Guide the Development of Cancer?

## Birth and Growth of Biophoton Field Concept

- 5 Early Systems Biology and the Morphogenetic Radiation Field
- 6 Biology Looks at Physics
- 7 The Entrance of the Photomultiplier
- 8 World-wide Expansion of Photon Emission Research

### Cancer Metabolism and Photon Emission

- 9 Cancer: Energy Metabolism in Relationship to Differentiation
- 10 More about Cancer as a Model and its Relationship to Proliferation
- 11 Beyond Respiration: Free Radicals and Photon Emission

# ■ From Bio-Electromagnetism to the Photon Field Concept

- 12 Field Theory and Bio-electromagnetism
- 13 Bone: Semiconductors as Biophoton Emitters
- 14 Electromagnetic Fields and Life
- 15 Revival of the Photon Field Concept

# ■ The Photon Field Concept in Health and Disease

- 16 Photon Storage and Emission in Cancer Cells
- 17 Photon Field Aspects in the 1990's
- 18 Human Photon Emission in Health and Disease
- 19 Imaging Human Photon Emission
- 20 Perspectives by John M. Ackerman:
  Biophotons as a Bridge between Western and Chinese Medicine?

Glossary

Index