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## Preface

Ophthalmology training is more than just memorizing pieces of information. Particularly important is a comprehensive understanding of the scientific background. This book on “Physics and Chemistry of the Eye” describes the coherence of ophthalmology with physics and chemistry. It is the ambition to provide a better understanding of clinical observations and the way how we treat patients.

Such a physical and chemical background is only conditionally a prerequisite for practising ophthalmology. However, it helps clinicians interpreting phenomena, gives researcher more independency, and increases enthusiasm of curious scientists.

This book is simply an introduction and is not meant to be complete by any means. The mentioned clinical pictures serve merely as examples. For more comprehensive descriptions, please refer to corresponding textbooks.

This first edition may contain weaknesses and mistakes. We encourage readers to give us feedback in order to improve future editions.

For us, writing this book was not just work but also satisfaction. We admire the beauty of the eye and are fascinated the way it functions and are particularly impressed about the interrelations between basic science and medicine. While writing the book, we realized in what sophisticated way fundamental laws of nature enabled the emergence of life.

We hope that some sparks of our enthusiasm may jump to the reader and that this book contributes to the appreciation of ophthalmology both for the benefit of patients and physicians.

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