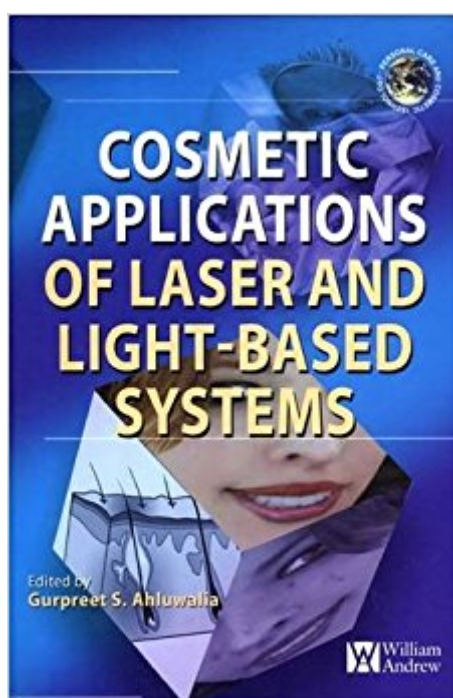


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# Cosmetics Applications Of Laser And Light-Based Systems (Personal Care And Cosmetic Technology)



## Synopsis

In recent decades, cosmetic science has found new high-potency, bioactive ingredients that produce visibly superior skin benefits to the consumer. Light-based devices, including lasers and intense-pulsed light systems, have been used for years in the treatment of cutaneous vascular and pigmented lesions, yet have only recently appeared in cosmetic applications, beauty salons and spas. Meanwhile, ever more research and development is being performed with the intent of bringing them to the home-use market. This book is the first to introduce a range of currently used, or under development, laser- and light-based technologies that will provide greater cosmetic benefits to the consumer. It explains the basic physics of light-based technologies, the bio-physical principles behind their mechanism of action, and their applications in many cosmetic procedures. The fundamentals of skin and hair physiology (relevant to the understanding of actions of various cosmetics) are also explained, as are: cosmeceuticals; topical drugs for cosmetic benefits; non-invasive and invasive options available for beauty treatments, and how all this fits in with the emerging light-based technologies. Individual chapters are devoted to the various skin and hair conditions where light-based systems are currently used. Treatments discussed include the rejuvenation and toning of damaged skin; skin resurfacing and microdermabrasion; hair removal and growth reduction; wrinkle reduction; acne treatment and cellulite. Finally, the book examines the synergy of cosmeceuticals and topical bioactive agents with light-based technologies, safety issues, a regulatory perspective for OTC marketing, and concludes with a discussion of the business aspects related to home-use of light-based devices. The first book to introduce this emerging technology to the personal care industry Explains their applications in many cosmetic procedures Devotes individual chapters to common skin and hair conditions

## Book Information

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## Customer Reviews

This is the first book to introduce an emerging technology of light-based systems to the personal care industry, and explain how this technology might change the cosmetic marketplace. Explains the basic physics of light-based technologies, the bio-physical principles behind their mechanism of action, and their applications in many cosmetic procedures. Devotes individual chapters to various skin and hair conditions where light-based systems are currently used for treatment. Explains fundamentals of skin and hair physiology and cosmeceuticals; topical drugs for cosmetic benefits; non-invasive and invasive options for beauty treatments, and how this all pertains to the emerging light-based technologies.

Gurpreet Ahluwalia, Ph.D. is a Senior Director at Allergan, Inc in the Dermatology Clinical R&D. Before joining Allergan in January 08, Dr. Ahluwalia was at Gillette, a subsidiary of P&G Company for over 20 years where he led multidisciplinary teams of researchers for development of dermatology drugs and medical devices. His industry experience and expertise range from concept generation and various phases of drug development to securing FDA's marketing approval. A pioneer in the field of identification of biochemical targets for hair growth management and determination of mechanism of action of compounds and laser and light-based treatments, Dr. Ahluwalia has 47 awarded US patents with broad 'method of use' claims and about 50 publications in peer reviewed scientific journals.

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