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into the Skin; 3.4 Delivery System Factors; 3.5 Conclusions; References; Chapter 4. Delivery System Design in Topically Applied Formulations: An Overview; 4.1 Introduction; 4.2 Routes for Skin Penetration; 4.3 Improvement of the Therapeutic Index; 4.4 Design of Delivery Systems; 4.5 Examples of Delivery Systems; 4.6 Determination of the Site of Action; 4.7 Topical Applications: Examples; 4.8 Summary and Future Challenges; References

Chapter 5. From Ancient Potions to Modern Lotions: A Technology Overview and Introduction to Topical Delivery Systems 5.1 Introduction; 5.2 Origins of Delivery Systems; 5.3 Origins of Personal Care: When Medicine and Cosmetics Were One; 5.4 Foundations of Personal Care Technology; 5.5 New Technology for Personal Care: An Introduction to Delivery Vehicles; 5.6 Conclusions; 5.7 Formulations; References; Part III: Crossing the Barrier; Chapter 6. Crossing the Lipid Barrier with the Echo-Derm™ Delivery System (A Skin-Mimicking, Lamellar Matrix System); 6.1 What is a Delivery System?

6.2 Anatomy of a "Perfect Product"; 6.3 Skin's Functions; 6.4 Why Worry About Delivery; 6.5 Delivery Options; 6.6 Formulating Guidelines; 6.7 Sample Formulations; References; Chapter 7. Tetrahydropiperine A Natural Topical Permeation Enhancer; 7.1 Introduction; 7.2 Historical Perspective; 7.3 Concept Development; 7.4 Scientific Basis for Efficacy; 7.5 Safety Profile; 7.6 Enhancing Topical Delivery of Bioactives with THP; 7.7 Formulation Strategies; 7.8 Summary; 7.9 Formulations; References; Part IV: Encapsulation; Chapter 8. Microencapsulation: An Overview of the Technology Landscape

8.1 Background; 8.2 Microencapsulation Technology Vectors; 8.3 Bringing It All Together: The Encapsulation Technology Landscape; 8.4 Microencapsulation Technology Challenges and Market Trends; 8.5 Conclusions; References; Chapter 9. Microcapsules as a Delivery System; 9.1 Introduction; 9.2 Microcapsules; 9.3 Microcapsule Release Mechanisms; 9.4 Encapsulation by In Situ Polymerization; 9.5 Formulations: Features and Benefits; 9.6 Conclusions; 9.7 Formulations; References; Chapter 10. Tagravit™ Microcapsules as Controlled Drug Delivery Devices and Their Formulations

10.1 Microencapsulation: A Delivery Method for Unstable Actives

## Sommario/riassunto

Novel delivery systems designed to facilitate the use of fountain of youth and other functional actives is an idea whose time has come. In a rapidly growing global market eager for products that really work, accelerating market pull forces and technology push have set the stage for this foundation text. This must have book has been carefully designed for training, development and synergistic technology transfer across the personal care, cosmetic and pharmaceutical industries. It is not only intended for scientists and technologists but will also be of high interest to market development and