

Preface

This book is a comprehensive source for technical information regarding ultraviolet germicidal irradiation (UVGI) and its application to air and surface disinfection for the control of pathogens and allergens. The primary focus is on airborne microbes and surface contamination applications. Water-based applications are not addressed here except incidentally as they relate to air and surface microbes, since many adequate texts on water-based UV disinfection are available. All aspects of UVGI systems, including design methods, modeling, safety, installation, guidelines, and disinfection theory are addressed in sufficient detail that no additional sources need be consulted. It is hoped by the author that providing this information in one single volume will simplify the design and installation of UVGI systems, help guarantee effective performance of new systems, and facilitate their use on a wide scale for the purpose of improving human health and controlling epidemic disease. This book is organized to provide systematic coverage of all essential issues and will serve equally well as both a textbook and a handbook for general reference.

Any readers who find technical errors or omissions in this book may send them to me at drkowalski@aerobiologicalengineering.com. Errata will be posted at <http://www.aerobiologicalengineering.com/UVGI/errata.htm>. All other correspondence should be sent to drkowalski@ibsix.com.



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UVGI for Air and Surface Disinfection

Kowalski, W.

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