

Preface

Complex interdisciplinary technologies are in their various forms, a constructive and ubiquitous part of modern society and thus an important determinant of socio-economic and institutional change. In the industrialized and technologically emerging countries, most companies in the pharmaceutical industry will take the advantages, which are to be provided by the isolator technology.

Purity in the production environment is no longer enough, even the mathematical-physical definition of the sterility assurance level of 10^{-6} no longer is the end of a highly sophisticated technology and the integrated processes here. Manufacturing principles using isolator technologies are key to scientific, industrial, and social progress.

It is as a characteristic of our times that technical innovation and progress in the aseptic and biological technologies have to be available in ever shorter cycles. Knowledge of the interdisciplinary relationships in the area of conflict between the different applications of aseptic industry, life sciences, medical technology, and human medicine are now assumed and form the basis in an industrialized civilization for a responsible way to act and for environmentally responsible business practices.

The isolator technology experienced tremendous growth for quite some time and raises more and more into one of the most important fundamental technologies of future markets in the sterile production. This trend is largely supported by a rapid development in the area of human health care in developing countries, the new emerging industrial nations, the significant increase in age mobility, and the associated increase in life expectancy. A number of factors, including the globalization of the economy, are leading to an increasing competition for the development of new key technologies with long-term strategic direction. One of the traditional strengths of science is to tap into your objects through differentiation and analysis to make historical and cultural classifications, as well as to critically analyse and evaluate.

The authors of this book pick up on all these issues and demonstrate once again how these practices as the views of new advanced technologies, based on the historical origins of isolator technology to the future-oriented system development, are understandable and sharpened. The book is a technological view, which is just

as socially necessary as fruitful and exciting as it is the phenomenon of “isolator technology” as part of our industrial society, which makes it recognizable and arguable.

May this new book inspire to further activities in the isolation technology and thereby help bring nearer the realization of many scientific dreams for the welfare of humanity.

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