

# **Preface**

Bringing technologies to the market place requires attention to the processes used for technology development. This book provides tools for managing the technology development more effectively and demonstrates the use of them through many cases from the sectors where technologies have been playing a key role in the recent decade.

The book is divided into five parts.

## **Decision Making**

Chapters 1–3 demonstrate the use of hierarchical decision modeling. This tool was developed by Dundar F. Kocaoglu of Portland State University. It is an honor for all of us to be his students through the past two decades. The chapters provide examples from industries ranging from semiconductor manufacturing to information technology.

## **Technology Evaluation**

Chapters 4–6 demonstrate the use of multiple tools for technology evaluation. These tools are demonstrated for technologies ranging from energy to material.

## **Research and Development**

Chapters 7–9 provide research and development cases. Each chapter explores a different aspect ranging from exploring product specifications to industry standardization.

## **International Aspects**

Chapters 10 and 11 explore issues regarding the international aspects ranging from outsourcing to international product development.

## **Social and Political Aspects**

Finally, Chaps. 12–14 provide insight into the social and political aspects by providing cases on the social capital of the organizations and regional innovation capacity.

As a whole this book provides insights into tools which will be useful to address issues emerging from different fronts while developing technologies.

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