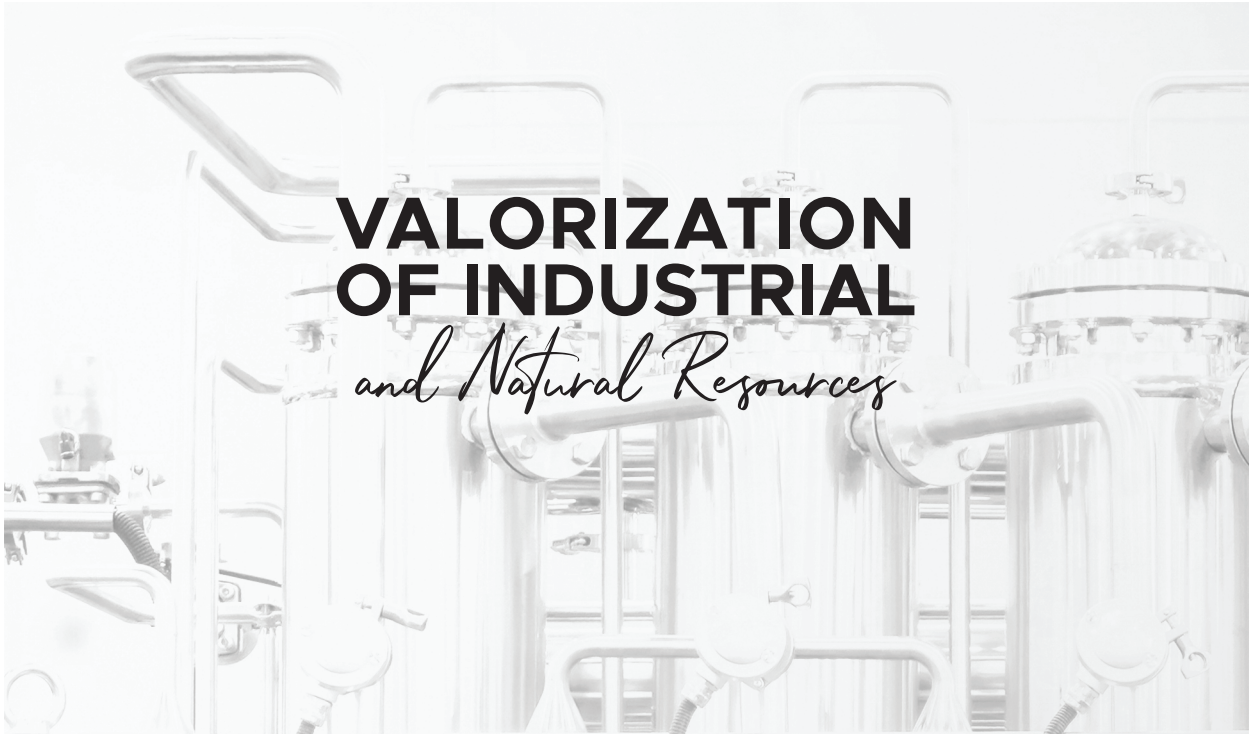


**VALORIZATION
OF INDUSTRIAL**
and Natural Resources



VALORIZATION OF INDUSTRIAL *and Natural Resources*



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PREFACE

Valorization of Industrial and Natural Resources aims to provide a focused yet comprehensive exploration of cutting-edge techniques used to convert agricultural residues, forestry by-products, marine resources and industrial discards into value-added products. From therapeutic materials for wound healing to nutraceuticals and environmental remediation, this book addresses the growing importance of separation technologies. Our primary goal is to present recent advances in the field while offering insight into the theories, mechanisms and operating conditions that influence the efficiency and scalability of these processes.

The growing interest in resources valorization stems from the imperative to repurpose the residues and enhance the efficient utilization of natural resources for sustainable development. This book brings together leading experts to highlight practical and theoretical aspects in the treatment and conversion of available resources. Readers will find insights that transcend laboratory-scale methods, emphasizing industrial relevance and emerging applications.

Written for researchers and professionals in biotechnology and environmental sciences, this book blends technical rigour with accessible structure. Each chapter builds on core scientific principles and explores a distinct application area, starting with an introductory overview. The organization of content allows for flexible reading, for beginners to the topic or revisiting specific subjects. Let this book be a catalyst for discovery and meaningful impact in sustainable science.

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