Preface

The rapid depletion of fossil fuels and increasing concerns regarding environmental problems are prompting us to develop more efficient energy systems for a sustainable future. The aviation sector, including air and cargo transportation, management of air traffic, management of airport terminals and associated buildings, numerous manned and unmanned aerial vehicle operations, and so on, is one of the fastest growing sectors in the last decade. The number of aircrafts in service, managed airports, and people using air transportation are increasing every day. Given this growth, the sustainable management of energy in the aviation sector is vital.

This book, *Sustainable Aviation: Advances in Sustainable Aviation*, presents the state-of-the-art sustainable aviation. The book compiles selected outstanding papers presented at the International Symposium on Sustainable Aviation 2016 (ISSA-2016). This event was held in Istanbul, Turkey, from May 29, 2016, to June 1, 2016, with the participation of researchers, scientists, and academics from all over the world. The contribution of leading aviation companies and distinguished scientists in the field of aviation turned the event into a platform where the future of the sector was discussed.

The book is composed of 4 parts and 20 chapters in total. Each chapter in the book aims to present an issue and solution on how to achieve more sustainable aviation. The first part of the book includes research associated with aviation fuels and combustion technologies. Recent studies on aerodynamics are presented in the second part of the book. The third part involves energy and environmental issues associated with the aviation. The last part of the book addresses the advances in employment of electronic systems and control technologies in aviation.

This book provides a unique source of sustainable aviation with a prime focus on advances in sustainable aviation. The contributions of the authors and reviewers and the assistance provided by the conference organizing committee members in the preparation of this book are sincerely appreciated.

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