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**Ruhul Sarker,Hussein A. Abbass,Simon
Dunstall,Philip Kilby,Richard
Davis,Leon Young**

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Lightweight and Sustainable Materials for Automotive Applications Omar Faruk, Jimi Tjong, Mohini

Sain, 2017-06-01 Automotive manufacturers are required to decrease CO2 emissions and increase fuel economy while assuring driver comfort and safety. In recent years there has been rapid development in the application of lightweight and sustainable materials in the automotive industry to help meet these criteria. This book provides critical reviews and the latest research results of various lightweight and sustainable materials in automotive applications. It discusses current applications and future trends of lightweight materials in the automotive area. While there are a few books published mainly focusing on automotive applications of metallic lightweight materials to date, there is no available book focusing on a broad spectrum of lightweight materials including metal plastic composites, bio fiber, bio polymer, carbon fiber, glass fiber, nanomaterials, rubber materials, and foaming materials as this work does. The book also includes case studies of commercial lightweight automotive parts from sustainable lightweight materials, providing an invaluable resource to those involved in this in demand research and commercialization area.

Data and Decision Sciences in Action Ruhul Sarker, Hussein A. Abbass, Simon

Dunstall, Philip Kilby, Richard Davis, Leon Young, 2017-07-26 Offering a concise and multidisciplinary reference guide to the state of the art in Australian operations research, this book will be of great value to academics working in many disciplines associated with operations research as well as industrial practitioners engaged in planning, scheduling, and logistics. Over 60 papers with topics ranging from academic research techniques and case studies to industrial and administrative best practices in operations research address aspects such as optimization, combinatorial optimization, decision analysis, supply chain management, queuing and routing, and project management and logistics. Government, cyber security, health care, systems, mining, and material processing, ergonomics, and human factors, space applications, telecommunications, and transportation among many others. This book presents the Proceedings of the National Conference of the Australian Society for Operations Research, the premier professional organization for Australian academics and practitioners working in optimization and other disciplines related to operations research. The conference was held in Canberra in November 2016.

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