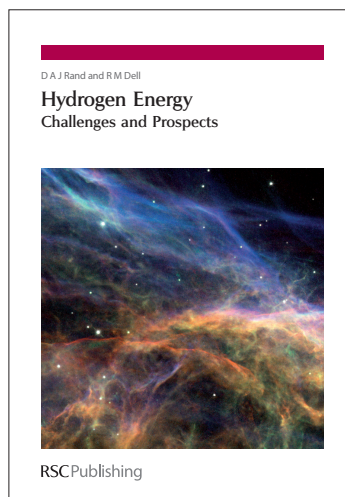


# Hydrogen Energy

## Challenges and Prospects



**Authors:** D A J Rand & R M Dell

**Publication date:** 2008

**Publisher:** RSC Publishing

**Series:** RSC Energy Series

**Format:** Hardback

**Size:** Metric Royal 234 x 156mm

**Pages:** ca xxxviii+300

**Illustrations:** 90

**ISBN:** 9780854045976

**Price:** £45.00

**Target audience:** Undergraduate,  
Postgraduate, Professional

### Synopsis

With no emissions other than water and the capability of production from a variety of primary sources, hydrogen has been heralded as the sustainable fuel of the future. The factors involved in such a transition and the likelihood of success are examined in **Hydrogen Energy**, a new book from the authors of **Clean Energy** (ISBN: 9780854045464 | Price: £89.95 | Series: RSC Clean Technology Monographs).

Starting with a discussion of the drivers for hydrogen, subsequent sections consider the technical challenges that face the global introduction of this alternative energy supply. Key issues include the manufacture of hydrogen from natural gas and coal, the options for sequestering carbon dioxide, alternative sources of hydrogen such as water via electrolysis, methods of hydrogen distribution and storage, and fuel cells and their applications. Finishing with a look to the future, the book discusses the prospects of hydrogen as a new energy carrier and fuel.

**Hydrogen Energy** is written by leading experts and will appeal to a wide audience drawn from students and researchers in the field, energy professionals, Government agencies, financiers, industrialists and the general public.

**Hydrogen Energy** is the first book to be published in the new **RSC Energy Book Series**.

The **RSC Energy Book Series** includes books that will examine topics surrounding the reduction of carbon emissions from existing fossil-fuel systems and alternative energy sources. Long-term energy solutions will require a diverse mix of energy systems as well as the development of efficient technologies to reduce energy demand. Each book will focus on issues such as the various forms of renewable energy available, the environmental validity of sustainable systems and improved energy generation driven by the chemical sciences.

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