

You are viewing a sample of the Paperback version

Close

ISBN: 979-8588879668



Dr. Satyanarayan Dhal and 9 more

Emerging Materials for Future Technology: Current Challenges an...

Paperback: \$6¹⁰



Add to Cart

Ships from and sold by Amazon.com.

[See more buying options](#)



This is a sample. The number of pages displayed is limited.



Aa

Chapter-1

Copyrighted Material

Emerging Materials in Current Scenario

Satyanarayan Dhal

Centurion University of Technology and Management, Odisha, India

*Corresponding author: Email id: satyanarayan.dhal@cutm.ac.in ; Mob. 9178871386

2.1 Introduction

Materials research [1] continuously advances to provide new, supreme potent materials compared to their primitive alternative ones. Different products are designed which is based on the potential of such materials [2]. Hence, different theories, mechanisms, computational tools are also simultaneously developed accordingly. Always researchers are keenly interested to choose the best materials for product development or in search of novel materials that may open up many possible directions that will inspire various industries for further modification. The market condition for the development of materials also plays a crucial role in scientific research and development. It is also imperative to develop only those materials which can have an impact on sustainable societies. As Smith et al. stated [3] wealth of current, industrial economies depends on innovative development to satisfy the market. Always, the industries have to run behind the competitive materials as materials revolution is continuously changing day by day. Various international world class laboratories are working day and night on the development of these emerging Materials. For instance, the department of Physical sciences and engineering of Argonne National laboratory, USA focusses in a fundamental understanding of the electronic and magnetic properties of various complex materials. So, in other words, there is an urgent need to study the fundamental understanding and the development of these innovative ultra-modern materials. Hence, this book is a supplement to that; especially this chapter introduces several emerging materials which are going to revolutionize the future of mankind.

Therefore, I have given some short paragraphs regarding these materials.