

## Book Description

In order to track the development trend of engineering science and technology, the Chinese Academy of Engineering (CAE) has been organizing a project known as "Global Engineering Fronts" every year since 2017. The research identifies and releases nearly two hundreds of engineering research fronts and engineering development fronts every year to guide academic development and promote the innovation of engineering science and technology. The 2022 Global Engineering Fronts research rely on nine academic divisions and academic journals of the CAE to identify 95 engineering research fronts and 93 engineering development fronts, collaborating with Clarivate. This is done by paying equal attention to the engineering research and development fronts, integrating quantitative analysis and qualitative research, and combining data mining and expert argumentation. Among these, 29 key engineering research fronts and 29 key engineering development fronts are selected for detailed interpretations. This report presents the results of the 2022 project and comprises two parts. Part A explains the data and methodology. Part B presents the technology reports focusing on nine fields. Each report describes and analyzes the engineering research and development fronts in these fields and explains the key fronts in detail.

This book is suitable for scientific researchers, engineers, teachers and students in universities, and civil servants in relevant government departments.

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