

Preface

We are pleased to present the proceedings of “The 2nd International Conference on Applied Engineering, Science, Technology and Innovation (AESTI 2024)”. This book consolidates the groundbreaking research contributions and insightful discussions shared during the conference.

The AESTI 2024 conference served as a vibrant platform for fostering interdisciplinary collaboration among researchers, academics, practitioners, and industry professionals worldwide. This year’s theme emphasised the importance of addressing global and regional challenges through sustainable engineering practices and innovative technologies, paving the way for a more resilient and prosperous future.

The chapters in this book reflect the depth and breadth of discussions held during the conference, covering a wide array of topics:

- Materials Corrosion
- Building Materials
- Structural Engineering and Disaster Resilience Assessment
- Urban Planning and Infrastructure Development
- Rural Planning and Development

Each paper underwent a meticulous peer-review process to ensure academic rigor and relevance, contributing significantly to the body of knowledge in applied engineering, science, and technology. We extend our deepest gratitude to Universitas Teuku Umar for its unwavering support and commitment to hosting this significant international event. Our heartfelt thanks also go to the contributing researchers and participants, whose dedication and contributions enriched the quality of this conference.

Additionally, we are immensely grateful to the organising committee, peer reviewers, and technical staff for their tireless efforts in ensuring the smooth execution of the conference and the preparation of this publication.

We hope this book will serve as a lasting source of knowledge and inspiration, fostering future research, innovation, and collaboration to address the challenges and opportunities of the modern world.

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