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Emerging Engineers in Africa**

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Dedication

To the innovators and engineers of tomorrow, may this guide serve as a steady first step in your journey to solving the world's challenges.

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We wish to express our sincere gratitude to the **Chinhoyi University of Technology (CUT)** and the **Institute of Materials Science, Processing and Engineering Technology (IMPET)** for providing the institutional support and the opportunity to contribute to the university's engineering curriculum.

We would like to extend our appreciation to the University Library team for their essential support in editing and maintaining the resources necessary for this work.

This book is the result of a collaborative effort, and special recognition is due to the contributing authors—**P. Chawagarira, R. Sekhala, B. Mpofu, and M.P. Magavhe**—whose shared expertise in materials science and engineering physics was fundamental to the development of this text. Finally, we acknowledge the students who will utilise this guide; it is our hope that this work serves as a valuable pillar in your foundational engineering education.

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Edmore Takunda Mushonga is an emerging academic leader and researcher at Chinhoyi University of Technology, specialising in materials processing, mechatronics, and innovation-driven development. He holds a B.Eng. in Mechatronics Engineering and an M.Phil. in Materials Science and Engineering, and is currently pursuing a DPhil focused on sustainable mineral processing using microwave-assisted techniques.

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- **Brighton Staff Mpofu**



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