

# Islamic Engineering Ethics

Foundation Integration  
and Practice



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editors

Abdi O. Shuriye  
Mohamed H. Hassan  
Waleed F. Faris



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# ISLAMIC ENGINEERING ETHICS

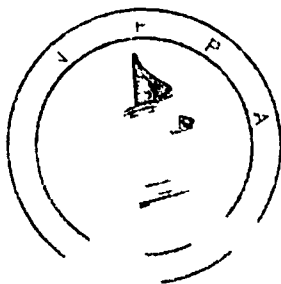
## Foundation Integration and Practice

Editors:

*Abdi O. Shuriye*

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# PREFACE

Since the 1970s professional ethics; especially in the engineering field; became an integral part of engineering curriculum in various academic institutions. This phenomenon has resulted from the increasing awareness of the importance of equipping the graduates with enough background to interact with their societies in an ethical manner. In engineering arena, this is crucial as hundreds of human lives are usually at stake if the engineering practices are not handled properly.

To a certain extent most values and ethical principles are universal; however, the motives to adapt these values are culture dependent. Thus, it became crucial to equip Muslim engineers with the origin of professional ethical behavior in Islam. It can also be argued that Islam provides general guidelines for some complicated issues like environmental protection, privacy intrusion, and priorities in risk analysis. In view of the enormous early Muslim contributions to the world civilizations, there is a need to reexamine the Islamic heritage to be able to contextualize these contributions in modern day's terminology. In the mean time, much was written on values and ethics from an Islamic perspective, however, practical steps; needed to translate the theory into methodology to be implement in realty; are still lacking. It is with this intention, that this book is produced.

The initial idea of this work evolved from the themes taught in a course entitled "Values, Technology and Society" for postgraduate students in the Faculty of Engineering, International Islamic University, Malaysia. It became apparent to the instructors that courses of this nature need special attention to provide reading materials, references, and text books to the students. However, the present form of this work is a direct result of a papers presented in a workshop on "*Islamization and Engineering: An Integrated Approach*" which was organized by the Faculty of Engineering, International Islamic University, Malaysia.

The book consists of three parts covering the basics as well as the practical aspects of integrating Islamic principles and values into engineering fields. The first part covers *engineering ethics, and the Muslim contributions to the world civilizations*. To properly delineate the methodology of applying Islamic principles in the engineering curriculum, part two is devoted to cover revelation as a source of engineering sciences as well as two contributions on how to practically implement the Islamic aspects into the engineering curriculum. Part three represents examples of integrating Islamic principles into the engineering practices. This covers areas such as the Internet, biotechnology as well as waste management and environmental protection.

It is our hope that this work would be a stimulus to more research on practical steps in translating the Islamic principles into the engineering professional fields.

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