

Degrees Of Belief Subjective Probability And Engineering Judgment

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all educators bring to their work preconceived ideas of what the curriculum should be and how students learn seldom are they thought through since without an adequate philosophical base it is difficult to bring about desirable changes in policy and practice it is necessary that educators have defensible philosophies of engineering education this point is illustrated by recent debates on educational outcomes which can be analysed in terms of competing curriculum ideologies while these ideologies inform the development of a philosophy of engineering education they do so in light of a philosophy of engineering for such a philosophy focuses on what engineering is and in particular how it differs from science this is addressed in this study through consideration of the differences in the modes of abstraction required for the pursuit of science on the one hand and the pursuit of engineering design on the other hand it is shown that a philosophy of engineering is not a philosophy

of science or a philosophy of engineering education but it is from a philosophy of engineering that a philosophy of engineering education is drawn uncertainty is shown to be a key characteristic of engineering practice a way of formulating a philosophy of engineering is to consider it through the classical prism that splits the subject into five divisions namely epistemology metaphysics logic ethics aesthetics additionally behaviour also characterizes the practice of engineering

this volume the result of an ongoing bridge building effort among engineers and humanists addresses a variety of philosophical ethical and policy issues emanating from engineering and technology interwoven through its chapters are two themes often held in tension with one another exploring boundaries and expanding connections expanding connections highlights contributions that look to philosophy for insight into some of the challenges engineers face in working with policy makers lay designers and other members of the public it also speaks to reflections included in this volume on the connections between fact and value reason and emotion engineering practice and the social good and of course between engineering and philosophy exploring boundaries highlights contributions that focus on some type of demarcation public policy sets a boundary between what is regulated from what is not academic disciplines delimit themselves by their subjects and methods of inquiry and professions approach problems with unique goals and by using concepts and language in particular ways that create potential obstacles to collaboration with other fields these and other forms of boundary setting are also addressed in this volume contributors explore these two themes in a variety of specific contexts including engineering epistemology engineers social responsibilities engineering and public policy making engineering innovation and the affective dimensions of engineering work the book also includes analyses of social and ethical issues with emerging technologies such as 3 d printing and its use in medical applications as well as social robots initial versions of the invited papers included in this book were first presented at the 2014 meeting of the forum on philosophy engineering and technology fpet held at virginia tech in blacksburg virginia usa the volume furthers fpet s intent of extending and developing the philosophy of engineering as an academic field and encouraging conversation promoting a sense of shared enterprise and building community among philosophers and engineers across a diversity of cultural backgrounds and approaches to inquiry

observing at a risk analysis conference for civil engineers that participants did not share a common language of probability vick a consultant and geotechnic engineer set out to not only examine why but to also bridge the gap he reexamines three elements at the core of engineering the concepts

this work explores the nature of professional judgement and how it is used in planning design and management it is based on two decades of research on the psychology of judgement and its application in professional decision making

for most professions a code of ethics exists to promote positive behavior among practitioners in order to enrich others within the field as well as the communities they serve similar to the medical law and business fields the engineering discipline also instills a code of ethical conduct contemporary ethical issues in engineering highlights a modern approach to the topic of engineering ethics and the current moral dilemmas facing practitioners in the field focusing on key issues theoretical foundations and the best methods for promoting engineering ethics from the pre practitioner to the managerial level this timely publication is ideally designed for use by engineering students active professionals and

academics as well as researchers in all disciplines of engineering

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