

Ethics In Engineering

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providing unique accessible lessons on engineering this title in the bestselling 101 things i learned series is a perfect resource for students recent graduates general readers and even seasoned professionals an experienced civil engineer presents the physics and fundamentals underlying the many fields of engineering far from a dry nuts and bolts exposition 101 things i learned in engineering school uses real world examples to show how the engineer s way of thinking can illuminate questions from the simple to the profound why shouldn t soldiers march across a bridge why do buildings want to float and cars want to fly what is the difference between thinking systemically and thinking systematically this informative resource will appeal to students general readers and even experienced engineers who will discover within many provocative insights into familiar principles

home and his clothes with paints and dyes building better structures and using fire and tools effectively the great chinese greek and roman civilisations all added to the new use of materials and sculpture and architecture went hand in hand with intellectual and philosophical development plato euclid socrates galileo leonardo da vinci and many others brought society through to the modern age and the start of the industrial revolution more recently another revolution in technology has brought robotics and miniaturisation of components thus bringing industry more automation and less need for man operated machinery during this time engineers have continued to study nature as a model for construction and development an example is louis sullivan with his tension and compression structures based on the morning glory flower now the new technique of continuous glass fibre structures developed by dr math mathweb of british petroleum go a long way towards helping man to emulate the spider developments in rotational moulding ceramics glass controlled crystallisation of metals and many other areas have all introduced new shape possibilities so now the engineer is more often than not required to be the arbiter of shape and form rather than being overtly constrained by necessity it has however become possible to distinguish three distinct elements in the design of form which can act as guidelines for the designer and it is worth studying these in detail

a guide to using the power of design flexibility to improve the performance of complex technological projects for designers managers users and analysts project teams can improve results by recognizing

that the future is inevitably uncertain and that by creating flexible designs they can adapt to eventualities this approach enables them to take advantage of new opportunities and avoid harmful losses designers of complex long lasting projects such as communication networks power plants or hospitals must learn to abandon fixed specifications and narrow forecasts they need to avoid the flaw of averages the conceptual pitfall that traps so many designs in underperformance failure to allow for changing circumstances risks leaving significant value untapped this book is a guide for creating and implementing value enhancing flexibility in design it will be an essential resource for all participants in the development and operation of technological systems designers managers financial analysts investors regulators and academics the book provides a high level overview of why flexibility in design is needed to deliver significantly increased value it describes in detail methods to identify select and implement useful flexibility the book is unique in that it explicitly recognizes that future outcomes are uncertain it thus presents forecasting analysis and evaluation tools especially suited to this reality appendixes provide expanded explanations of concepts and analytic tools

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