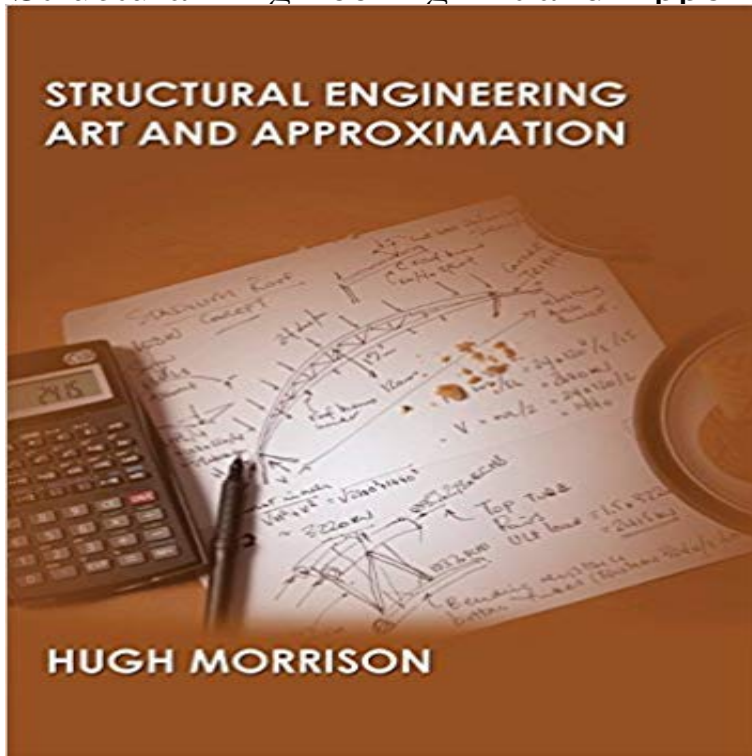


# Structural Engineering Art and Approximation



It is better to be roughly right than precisely wrong. John Maynard Keynes

This book contains approximate structural calculation methods for engineers and architects. For easy reference and assimilation it is broken down into categories from simple beams to more complex examples. With numerous figures and photographs it closely relates theory to real structures. Engineering Structures is mostly formally taught in a lecture room with little time devoted to real examples. On graduation an engineer has to cope with turning this eagerly acquired knowledge into reality. To make sense of this a designer needs to be able to test their ideas with a simple set of tools which involve little more than pen, paper and calculator. Architects often wonder if there is an easier way to evaluate alternative structural solutions in their designs. Hugh is an experienced engineer who has worked on a wide range of structures; from spacecraft to stadia; from glass staircases to residential properties. He maintains a practice in the UK, never having moved fully from the design office to the boardroom. Many of the examples in this book are projects on which he has been involved in his 30 year career. For more information see [www.stuartapp.com](http://www.stuartapp.com)

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