



Smart Structures and Materials 1994

***Mathematics and Control
in Smart Structures***

H. Thomas Banks

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Structronic Systems: Smart Structures, Devices And Systems (In 2 Parts) Ardeshir Guran,Horn-sen Tzou,Gary L
Anderson,Michihiro Natori,Ulrich Gabbert,Junji Tani,Elmar Breitbach,1998-04-04 This book is concerned with
electrostructural systems particularly the interaction between the control of the structural and electrical electronic
components Structronics is a new emerging area with many potential applications in the design of high performance
structures adaptive structures high precision systems and micro systems As structures are increasingly being controlled by
electronics the problems of structural engineering can be separated less and less from those of electronic engineering and
control engineering This graduate level book fills a gap in the literature by considering these problems while giving an
overview of the current state of analysis modelling and control for structronic systems It is a coherent compendium written
by leading experts in this new research area and gives readers a sophisticated toolbox that will allow them to tackle the
modelling and control of smart structures The inclusion of an extensive up to date bibliography and index makes this volume
an invaluable standard for professional reference Because of the large number of contributions to the present volume it has
been subdivided into two parts of which this is Part I This book will be of interest to engineers materials scientists physicists
and applied mathematicians The synergistic integration of active smart materials structures sensors actuators and control
electronics has redefined the concept of structures from a conventional passive elastic system to an active life like structronic
structure electronic system with inherent self sensing diagnosis and control capabilities Because of its multi disciplinary
nature the development of structronic systems has attracted researchers and scientists from many disciplines such as
structures materials control electronics mathematics manufacturing electromechanics and mechanics In practical
applications this new structronic system can be used as a component of high performance machines or structural systems or

be an integrated structure itself performing designated functions Most common active smart materials such as piezoelectrics shape memory alloys electro and magnetostrictive materials and polyelectrolyte gels have been reviewed in Part I Application examples are also provided and research issues reported on While the first part focuses primarily on materials and structures Part II emphasizes control applications and intelligent systems With the information provided in this two volume book scientists and researchers can easily grasp the state of the art of smart materials and structronic systems and are ready to pursue their own research and development endeavors

Petroleum Engineering Explained David Shallcross, 2020-04-20 Assuming no mathematical or chemistry knowledge this book introduces complete beginners to the field of petroleum engineering Written in a straightforward style the author takes a practical approach to the subject avoiding complex mathematics to achieve a text that is robust without being intimidating Covering traditional petroleum engineering topics readers of this book will learn about the formation and characteristics of petroleum reservoirs the chemical properties of petroleum the processes involved in the exploitation of reservoirs post extraction processing industrial safety and the long term outlook for the oil and gas production The descriptions and discussions are informed by considering the production histories of several fields including the Ekofisk field in the North Sea the Wyburn Field in Canada the Manifa Field in Saudi Arabia and the Wilmington Field off the Californian Coast The factors leading up to the well blowouts on board the Deepwater Horizon in the Gulf of Mexico and in the Mantara Field in the Timor Sea are also examined With a glossary to explain key words and concepts this book is a perfect introduction for newcomers to a petroleum engineering course as well as non specialists in industry Professor David Shallcross is one of the foremost practitioners in chemical engineering education worldwide Readers of this book will find his previous book *Chemical Engineering Explained* a useful companion

Applied Mechanics Reviews, 1994

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