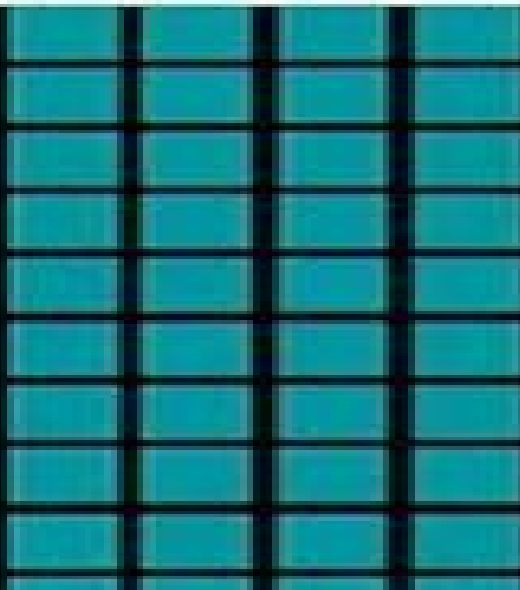


ARTIFICIAL INTELLIGENCE and EXPERT SYSTEMS for ENGINEERS



C.S.Krishnamoorthy
S. Rajeev

Artificial Intelligence And Expert Systems For Engineers New Directions In Civil Engineering

W.F. Chen, Shouji Toma



Artificial Intelligence And Expert Systems For Engineers New Directions In Civil Engineering:

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The Civil Engineering Handbook W.F. Chen, J.Y. Richard Liew, 2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation Its wide range of information makes it an essential resource for anyone working in civil structural or

environmental engineering New Directions in Educational Technology Eileen Scanlon, Tim O'Shea, 2012-12-06 This book is based on the workshop that kickstarted the NATO Science Committee Special Programme on Advanced Educational Technology We invited the leaders in the field to attend this inaugural meeting and were delighted by the quality of the attendance the papers delivered at the workshop and this book Many of the authors have subsequently run other meetings funded by the Special Programme and have or are in the process of editing books which focus on particular topics This book covers all the major themes in the area ranging from fundamental theoretical work to empirical studies of state of the art technological innovations Tim O Shea chaired the NATO Survey Group which planned the Programme and the subsequent Panel which disbursed funds in the first two years of the Programme He would like to thank the other group and panel members namely Professor N Balacheff Professor D Bjomer Professor H Bouma Professor P C Duchastel Professor A Dias de Figueiredo Dr D Jonassen and Professor T Liao He would like to offer his special thanks to Dr L V da Cunha the NATO Programme Director for his unfailing support and patience Eileen Scanlon was the Director of the Workshop which is the basis of this book She offers heartfelt thanks to the contributors and to the following who provided practical help with the meeting or the production of this book Mrs Pauline Adams Dr Mike Baker Mrs Kathy Evans Mrs Patricia Roe Mr Dave Perry and Ms Fiona Spensley Expert Systems in Construction and Structural Engineering H. Adeli, 2003-09-02 Expert Systems in Construction and Structural Engineering is a valuable reference both for researchers interested in the state of the art of civil engineering expert systems and practitioners interested in exploring the practical applications of this new technology

Theory of Adaptive Structures Senol Utku, 2018-05-04 Theory of Adaptive Structures provides the basic theory for controlling adaptive structures in static and dynamic environments It synthesizes well established theories on modern control as well as statics and dynamics of deformable bodies Discussions concentrate on the discrete parameter adaptive structures dealing with actuator placement actuator selection and actuation computation problems keeping these structures at close proximity of any chosen nominal state with the least energy consumption An introduction to the distributed parameter adaptive structures is also provided The book follows that modern trend in research and industry striving to incorporate intelligence into engineered products through microprocessors that are becoming smaller faster and cheaper at astounding rates Not using them in engineered products may become an enormous liability Resulting from the advances in materials technology on sensors and actuator technologies as well as the availability of very powerful and reliable microprocessors there is an ever increasing interest in actively controlling the behavior of engineering systems Engineers and engineering scientists must revive and broaden their activities to maximize applications for predicting and controlling the behavior of deformable bodies Topics include An introduction to adaptive structures Incremental excitation response relations in static and dynamic cases Active control of response in static case Statically determinate adaptive structures Statically indeterminate adaptive structures Active vibration control for autonomous and non autonomous cases Active control against

wind Active control against seismic loads Distributed parameter adaptive structures The technology of adaptive structures has created an environment where the analysis not the computation of structural response du **Earthquake Engineering Handbook** Charles Scawthorn, Wai-Fah Chen, 2002-09-27 Earthquakes are nearly unique among natural phenomena they affect virtually everything within a region from massive buildings and bridges down to the furnishings within a home Successful earthquake engineering therefore requires a broad background in subjects ranging from the geologic causes and effects of earthquakes to understanding the impact of these effects on foundations buildings structures the infrastructure and even their social and economic impact The Earthquake Engineering Handbook is a comprehensive resource that covers the spectrum of topics relevant to designing for and mitigating earthquakes In it international experts present engineering practices research and developments in North America Europe and the Pacific Rim countries The emphasis is on professional applications with discussion ranging from basic dynamics and geoscience to new technologies intended to avoid rather than resist the forces of earthquakes Covering both traditional and innovative practices the Earthquake Engineering Handbook is the first professional reference that brings together all of earthquake engineering s many facets Formulas tables and illustrations give immediate answers to questions arising in practice and summaries of the essential elements of each topic paint a global picture from which readers can develop understanding and the ability to think beyond the results presented

Limit Analysis and Concrete Plasticity, Second Edition M.P. Nielsen, 1998-12-29 Limit Analysis and Concrete Plasticity Second Edition covers the most relevant topics related to plastic design methods providing a reliable and superior alternative to existing empirical methods Fully updated and containing more extensive coverage this second edition includes numerical methods and computer code for solving problems incorporating methods into Eurocode 2 the common concrete standard for the whole of Europe This edition Emphasizes practical design treating almost all the elementary concrete mechanics problems in such a way that the solutions may be directly applied by the designer Details the fundamental problems associated with so called effectiveness factors Covers many new solutions to specific problems including concentrated forces shear walls and deep beams beams with normal forces and torsional moments and solutions dealing with membrane effects in slabs Simplifies the treatment of shear in beams and slabs without shear reinforcement or with a modicum of shear reinforcement Extends the chapters on joints and bond strength showing how plastic theory offers reasonable solutions for most structural problems in reinforced concrete Limit Analysis and Concrete Plasticity explains the basic principles of plasticity theory and its application to the design of reinforced and prestressed concrete structures providing a thorough understanding of the subject rather than simply applying current design codes This scientific understanding of the subject enables the design student or engineer to solve problems more effectively and safely LRFD Steel Design Using Advanced Analysis W.F. Chen, Seung-Eock Kim, 1997-01-30 LRFD Steel Design Using Advanced Analysis uses practical advanced analysis to produce almost identical member sizes to those of the Load and Resistance Factor Design

LRFD method The main advantage of the advanced analysis method is that tedious and sometimes confusing separate member capacity checks encompassed by the AISC LRFD specification equations are not necessary Advanced analysis can sufficiently capture the limit state strength and stability of a structural system and its individual member directly While the use of elastic analysis is still the norm in engineering practice a new generation of codes is expected to adopt the advanced analysis methodology in the near future leading to significant savings in design effort In recent years the continued rapid development in computer hardware and software coupled with an increased understanding of structural behavior has made it feasible to adopt the advanced analysis techniques for design office use Drs Chen and Kim both experienced and respected engineers contribute their expertise to this text which is intended for both the graduate student and the practicing engineer Previous knowledge of the subject is not necessary but familiarity with methods of elastic analysis and conventional LRFD design is expected The advanced analysis in the book is presented in a practical and simple manner with attention directed to both analysis and design emphasizing the direct use of the methods in engineering practice This is a great introduction to an exciting new trend in structural engineering

Prediction of Burnout Felix Ladstätter, Eva Garrosa, 2008-05 This Study about burnout in nurses takes a different approach than all prior empirical work on this topic given that nonlinear relationships between job stressors personal factors and the three burnout dimensions are investigated using artificial neural networks a type of computer simulation that is especially well suited to capturing nonlinearities in data The burnout process is related to organizational personal interpersonal social and cultural variables and these relationships are not exclusively linear Due to this nonlinearity hierarchical stepwise multiple regression or other linear statistical methods may perhaps not be the most suitable method to analyze the data effectively Compounding the dilemma is that multiple linear regression returns no direct indicator with regard to whether the data is best portrayed linearly In standard least squares linear regression the model has to be specified previously and assumptions have to be made concerning the underlying relationship between independent variables and dependent variables Since by default the relationship is often assumed to be linear the regression line can be erroneous even though the error of the fit can be small Artificial neural networks do not have these limitations with nonlinearities and are therefore predestined for the analysis of nonlinear relationships This study is a complex research of burnout that includes socio demographic characteristics job stressors and hardy personality Typically studies on burnout have investigated primarily the effects of organizational factors Recently authors revealed and confirmed the important effects of personality variables on the burnout process The objective of developing an instrument to predict burnout NuBuNet abbreviation for Nursing Burnout Network in nurses is accomplished by using two different types of artificial neural networks A three layer feed forward network with the gradient decent back propagation training algorithm and a radial basis function network with two different training algorithms the pseudo inverse algorithm and a hybrid algorithm The implementation of the artificial neural networks used in this study is carried out in a MATLAB development

environment Instead of writing each artificial neural network as a stand alone program an object oriented programming style is chosen to include all functions into one single system Three artificial neural networks are implemented in the technical part of this study A self organizing map a three layer back propagation network and a radial basis function network Whereas the self organizing map is only used in the data preparation process the back propagation network and the radial basis function network is used in the burnout model approximation After an exhaustive training and simulation session including more than 150 networks and an analysis of all results the network with the best results is chosen to be compared to the hierarchical stepwise multiple regression The network paradigms are better suited for the analysis of burnout than hierarchical stepwise multiple regression Both can capture nonlinear relationships that are relevant for theory development At predicting the three burnout sub dimensions emotional exhaustion depersonalization and lack of personal accomplishment however the radial basis function network is slightly better than the three layer feed forward network **Artificial**

Intelligence in Structural Engineering Ian Smith,1998-07-15 This book presents the state of the art of artificial intelligence techniques applied to structural engineering The 28 revised full papers by leading scientists were solicited for presentation at a meeting held in Ascona Switzerland in July 1998 The recent advances in information technology in particular decreasing hardware cost Internet communication faster computation increased bandwidth etc allow for the application of new AI techniques to structural engineering The papers presented deal with new aspects of information technology support for the design analysis monitoring control and diagnosis of various structural engineering systems

Response Spectrum Method in Seismic Analysis and Design of Structures Ajaya Kumar Gupta,2017-11-22 New developments in the response spectrum method have led to calculations in seismic stresses that are more accurate and usually lower than those obtained by conventional methods This new textbook examines the wealth of information on the response spectrum method generated by the latest research and presents the background theory in simplified form Applications of these methods is essential in the seismic design of critical structures such as nuclear power plants and petroleum facilities In new construction the reduced seismic stresses will result in efficient and economic design For facilities already built these more accurate methods can be used where the facility is being reassessed for higher loads and in the calculation of margins Written by an acknowledged expert in this and related fields this volume is ideal as a graduate text for courses in structural and earthquake engineering It is also an excellent reference for civil structural mechanical and earthquake engineers **Fracture Processes of Concrete** Jan G.M. van Mier,2017-07-14 Despite tremendous advances made in fracture mechanics of concrete in recent years very little information has been available on the nature of fracture processes and on reliable test methods for determining parameters for the different models Moreover most texts on this topic discuss numerical modeling but fail to consider experimentation This book fills these gaps and synthesizes progress in the field in a simple straightforward manner geared to practical applications *Structural Steel Semirigid Connections* Ciro

Faella, Vincenzo Piluso, Gianvittorio Rizzano, 1999-10-27 Although the semirigidity concept was introduced many years ago steel structures are usually designed by assuming that beam to column joints are either pinned or rigid These assumptions allow a great simplification in structural analysis and design but they neglect the true behavior of joints The economic and structural benefits of semirigid joints are well known and much has been written about their use in braced frames However they are seldom used by designers because most semirigid connections have highly nonlinear behavior so that the analysis and design of frames using them is difficult In fact the design problem becomes more difficult as soon as the true rotational behavior of beam to column joints is accounted for the design problem requires many attempts to achieve a safe and economical solution Structural Steel Semirigid Connections provides a comprehensive source of information on the design of semirigid frames up to the complete detailing of beam to column connections and focuses on the prediction of the moment rotation curve of connections This is the first work that contains procedures for predicting the connection plastic rotation supply necessary for performing the local ductility control in nonlinear static and dynamic analyses Extensive numerical examples clarify the practical application of the theoretical background This exhaustive reference and the awareness it provides of the influence of joint rotational behavior on the elastic and inelastic responses of structures will greatly benefit researchers professionals and specification writing bodies devoted to structural steel

Civil Engineering Learning Technology Robert Mitchell Lloyd, Carolynne Moore, 1999 The field of civil engineering offers specific challenges to the higher education sector Civil engineering's blend of management design and analysis requires people with a combination of academic and experimental knowledge and skill based abilities This volume brings together papers by leading practitioners in the field of learning technology within the discipline of civil engineering to facilitate the sharing of experience knowledge and expertise

Transportation Systems Planning Konstadinos G. Goulias, 2002-12-26 Transportation engineering and transportation planning are two sides of the same coin aiming at the design of an efficient infrastructure and service to meet the growing needs for accessibility and mobility Many well designed transport systems that meet these needs are based on a solid understanding of human behavior Since transportation systems

Engineering Applications of Artificial Intelligence Aziza Chakir, Johanes Fernandes Andry, Arif Ullah, Rohit Bansal, Mohamed Ghazouani, 2024-02-19 Making intelligent devices and systems is the science and engineering of artificial intelligence AI In order to solve many of the most difficult problems in computer science this important multidisciplinary discipline plays a crucial role in the field of technology nowadays The book also addresses the topic of machine learning because it is closely related to AI By no means is the list of subjects below intended to be comprehensive The main objective of this book is to provide researchers scientists business professionals and academics insight into original theories and research findings on the use of human cognitive models in diverse real world computing applications Through this book the authors built an interdisciplinary forum where researchers from many fields may share their work and explore how to engineer human brain processes learning mechanisms and

decision making processes **The Finite Strip Method** Y. K. Cheung,L. G. Tham,2020-07-01 The increase in the popularity and the number of potential applications of the finite strip method has created a demand for a definitive text reference on the subject Fulfilling this demand The Finite Strip Method provides practicing engineers researchers and students with a comprehensive introduction and theoretical development and a complete treatment of current practical applications of the method Written by experts who are arguably the world s leading authorities in the field The Finite Strip Method covers both the classical strip and the newly developed spline strip and computed shape function strip Applications in structural engineering with particular focus on practical structures such as slab beam bridges box girder bridges and tall buildings are discussed extensively Applications in geotechnology are also covered as are recently formulated applications in nonlinear analysis The Finite Strip Method is a unique book supplying much needed information by well known and highly regarded authors **Analysis and Software of Cylindrical Members** W.F. Chen,Shouji Toma,2020-12-17 This book provides an in depth look at the behavior design and construction of offshore structures It describes the behavior of cylindrical members and suggests appropriate software written by the contributors to determine everything from loading up to the ultimate load including post buckling and cyclic inelasticity **Concrete Beams with Openings** M. A. Mansur,Kiang-Hwee Tan,1999-01-29 This book compiles state of the art information on the behavior analysis and design of concrete beams containing transverse openings Discussions include the need effects and classification of openings as well as the general requirements for fulfilling design pure bending combined bending and shear illustrated with numerical examples torsion alone or in combination with bending and shear large rectangular openings as well as opening size and location on beam behavior methods for analyzing ultimate strength and serviceability requirements effects of torsion in beams large openings in continuous beams and their effects on possible redistribution of internal forces as well as guidelines and procedures for the design of such beams effect of prestressing on the serviceability and strength of beams with web openings design against cracking at openings and ultimate loads Concrete Beams with Openings serves as an invaluable source of information for designers and practicing engineers especially useful since little or no provision or guidelines are currently available in most building codes

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