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Neural Networks and Micromechanics

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Neural Networks and Micromechanics Ernst Kussul, Tatiana Baidyk, Donald C. Wunsch, 2009-12-01 Micromechanical manufacturing based on microequipment creates new possibilities in goods production. If microequipment sizes are comparable to the sizes of the microdevices to be produced, it is possible to decrease the cost of production drastically. The main components of the production cost—material, energy, space consumption, equipment, and maintenance—decrease with the scaling down of equipment sizes. To obtain really inexpensive production, labor costs must be reduced to almost zero. For this purpose, fully automated microfactories will be developed. To create fully automated microfactories, we propose using artificial neural networks having different structures. The simplest perceptron-like neural network can be used at the lowest levels of microfactory control systems. Adaptive Critic Design based on neural network models of the microfactory objects can be used for manufacturing process optimization, while associative projective neural networks and networks like ART could be used for the highest levels of control systems. We have examined the performance of different neural networks in traditional image recognition tasks and in problems that appear in micromechanical manufacturing. We and our colleagues also have developed an approach to microequipment creation in the form of sequential generations. Each subsequent generation must be of a smaller size than the previous ones and must be made by previous generations. Prototypes of first-generation microequipment have been developed and assessed.

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Innovative Creep Analysis Methods Vahid Monfared,2025-05-14 Innovative Creep Analysis Methods 101 Solved Problems provides analytical insight and solutions to commonly encountered problems involving creep deformation of materials The book provides fundamental insight into the phenomenon of creep methods for analyzing elasticity and plasticity problems outlines the effects of atomic number and atomic weight on creep as well as simulation techniques for elasto plastic deformation in composites by flow rule Creep formulations and computational modeling techniques are provided throughout Each problem presented is meticulously solved with detailed explanations and step by step instructions ensuring that readers grasp the underlying concepts Problems featured include predicting principal creep stress in fibrous composites obtaining creep strain rate in nickel obtaining creep rupture life in alloy S 590 finding nonlinear isochronous curves with Ramberg

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Mechanics Computing in 1990's and Beyond: Computational mechanics, fluid mechanics, and biomechanics Hojjat Adeli,R. L. Sierakowski,1991 Intelligent Automation in Renewable Energy Tetyana Baydyk,Ernst Kussul,Donald C. Wunsch II,2019-02-05 After an introduction to renewable energy technologies the authors present computational intelligence techniques for optimizing the manufacture of related technologies including solar concentrators In particular the authors present new applications for their neural classifiers for image and pattern recognition The book will be of interest to researchers in computational intelligence in particular in the domain of neural networks and engineers engaged with renewable energy technologies

Computational Mechanics with Neural Networks Genki Yagawa,Atsuya Oishi,2021-02-26 This book shows how neural networks are applied to computational mechanics Part I presents the fundamentals of neural networks and other machine learning method in computational mechanics Part II highlights the applications of neural networks to a variety of problems of computational mechanics The final chapter gives perspectives to the applications of the deep learning to computational mechanics

Building Research Journal ,2003 Journal of Engineering Mechanics ,2001 *Mechanics Computing in 1990's and Beyond: Structural and material mechanics* Hojjat Adeli,R. L. Sierakowski,1991 These proceedings consist of extended abstracts of the papers presented at the ASCE Engineering Mechanics Conference held in Columbus Ohio May 1991 The first volume is divided into three parts computational mechanics fluid mechanics and biomechanics discussing such specialized subjects as neural network computing symbolic processing damage mechanics ocean wave dynamics fluid structure interaction joint kinematics and contact problems in biomechanics Volume two is concerned with structural and material mechanics including such topics as vibration analysis of structures chaotic vibrations fracture and failure analysis seismic analysis microstructure analysis and micromechanics Acidic paper Annotation copyrighted by Book News Inc Portland OR *Fatigue and Fracture Mechanics in Pressure Vessels and Piping* Hardayal S. Mehta,G. M. Wilkowski,1995 *Modeling and Simulation Based Engineering* Satya N. Atluri,Padraic Eimear O'Donoghue,1998 *35th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference* ,1994 Computational Mechanics - New Frontiers for the New Millennium Prof. N. Khalili,2001-10-15 These Proceedings contain the papers presented at the 1stAsian Pacific Congress on Computational Mechanics held in Sydney on 20 23 November 2001 The theme of the first Congress of the Asian Pacific Association for Computational Mechanics in the new millennium is New Frontiers for the New Millennium The papers cover such new

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