

$$F_t = 0.6F_y = 0.6(36) = 21.6 \text{ ksi}$$

and the allowable strength is  $F_t A_g = 21.6(2 \times 1.20) = 51.84 \text{ kips}$

For the net section, the allowable strength is

$$\frac{P_n}{\Omega_t} = \frac{96.76}{2.00} = 48.38 \text{ kips}$$

Alternately, the allowable stress is

$$F_t = 0.5F_u = 0.5(58) = 29 \text{ ksi}$$

and the allowable strength is  $F_t A_e = 29(2 \times 0.8341) = 48.38 \text{ kips}$

The net section strength controls; the allowable strength is 48.4 kips. When the only loads are dead load and live load, ASD load combination 2 will always control:

$$P_u = D + L = 12 + 36 = 48 \text{ kips} < 48.4 \text{ kips} \quad (\text{OK})$$

The member has enough strength.

### 3.3-1

$$(a) \quad U = 1 - \frac{\bar{x}}{\ell} = 1 - \frac{1.47}{5} = 0.7060$$

$$A_e = A_g U = 5.86(0.7060) = 4.14 \text{ in.}^2$$

$$\underline{A_e = 4.14 \text{ in.}^2}$$

(b) Plate with longitudinal welds only:

$$U = \frac{3\ell^2}{3\ell^2 + w^2} \left( 1 - \frac{\bar{x}}{\ell} \right) = \frac{3(5)^2}{3(5)^2 + (4)^2} \left( 1 - \frac{(3/8)/2}{5} \right) = 0.7933$$

$$A_e = A_g U = \left( \frac{3}{8} \times 4 \right) (0.7933) = 1.19 \text{ in.}^2$$

$$\underline{A_e = 1.19 \text{ in.}^2}$$

$$(c) \quad U = 1.0$$

$$A_e = A_g U = \left( \frac{5}{8} \times 5 \right) (1.0) = 3.13 \text{ in.}^2$$

$$\underline{A_e = 3.13 \text{ in.}^2}$$

$$(d) \quad U = 1.0$$

$$A_g = 0.5(5.5) = 2.750 \text{ in.}^2$$

$$A_n = A_g - A_{holes} = 2.750 - \frac{1}{2} \left( \frac{3}{4} + \frac{1}{8} \right) = 2.313 \text{ in.}^2$$

$$A_e = A_n U = 2.313(1.0) = 2.313 \text{ in.}^2$$

$$\underline{A_e = 2.31 \text{ in.}^2}$$

$$(e) \quad U = 1.0$$

# Mppps Solution Manual

**Xiao-Chuan Cai, Charbel  
Farhat, Institute for Computer  
Applications in Science and  
Engineering, Marcus Sarkis**

## **Mppps Solution Manual:**

*Neutrosophic Sets and Systems, vol. 60/2023* Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2023-10-15

Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel s dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well

Variable Degree Schwarz Methods for the Implicit Solution of Unsteady Compressible Navier-Stokes Equations on Two-dimensional Unstructured Meshes Xiao-Chuan Cai, Charbel Farhat, Institute for Computer Applications in Science and Engineering, Marcus Sarkis, 1996

**Mobile Phone Panel Surveys in Developing Countries** Andrew Dabalén, Alvin Etang, Johannes Hoogeveen, Elvis Mushi, Youdi Schipper, Johannes von Engelhardt, 2016-07-12

Household survey data are very useful for monitoring living conditions of citizens of any country In developing countries a lot of this data are collected through traditional face to face household surveys Due to the remote and dispersed nature of many populations in developing countries but also because of the complex nature of many survey questionnaires collection of timely welfare data has often proved expensive and logistically challenging Yet there is a need for faster cheaper to collect lighter more nimble data collection methods to address data gaps between big household surveys The recent proliferation of mobile phone networks has opened new possibilities By combining baseline data from a traditional household survey with subsequent interviews of selected respondents using mobile phones this facilitates welfare monitoring and opinion polling almost real time The purpose of this handbook is to contribute to the development of the new field of mobile phone data collection in developing countries The handbook documents how this innovative approach to data collection works its advantages and challenges The handbook draws primarily from the authors first hand experiences with mobile phone surveys in Africa and also benefits from experiences elsewhere It is intended to serve a diverse audience including those involved in collecting representative data using mobile phones and those using data collected through this approach For those who will be implementing a mobile phone panel survey the different chapters guide them through every stage of the implementation process For potential users of the data collected via mobile phone technology the handbook presents a new approach to data collection which they can use for monitoring programs and facilitate almost real time

decision making A further purpose of this book is to contribute to the debate regarding the advantages of the method as well as the challenges associated with it

**Breast Imaging Techniques for Radiographers** Cristina Poggi, 2024-09-25 This textbook is intended to give most of the information a Mammographer should have to understand and perform successfully breast imaging techniques It is structured in 6 parts Basic theory Technical quality Clinical quality on the Report other breast imaging techniques and Radio Protection Ergonomics the academic training and the communicant skill Every part is divided in chapters made up of short paragraphs with very specific titles to give the reader the opportunity to find the answer to her his question easily Much importance is given to the image produced which should be characterized by a very high level of diagnostic information to allow the reader to find the lesion if it is there as early as possible The topic of how to produce the image is dealt with then but also of how to evaluate thoroughly and appropriately the quality of it Giving this in depth knowledge was the aim of this work The book covers up to date information about breast imaging and the surveillance pathway of the patient with breast cancer it is therefore of significant interest to Radiographers Technologists Radiologists Breast Nurses Radiographers students both undergraduate and postgraduate Physiotherapists

Optimum Aerodynamic Design & Parallel Navier-Stokes Computations ECARP — European Computational Aerodynamics Research Project Jacques Periaux, Gabriel Bugea, Kyriakos Giannakoglou, Bertrand Mantel, 2013-04-17 This volume entitled European Computational Aerodynamics Research Project ECARP contains the contributions of partners presented in two work shops focused on the following areas Task 3 on Optimum Design and Task 4 2 on Navier Stokes Flow algorithms on Massively Parallel Processors ECARP has been supported by the European Union EU through the Industrial and Materials Technology Programme Area 3 Aeronautics with the Third Research Framework Programme 1990 1994 Part A of this volume is focused on computational constrained optimization as a follow up of the EU research project Optimum Design in Aerodynamics AERO S9 0026 dealing with more viscous flow based real applications It provides the reader with a set of optimization tools and referenced data useful in modern aerodynamic design Task 3 of the project entitled Optimum Design brought together 13 European partners from the academic and industrial aeronautic oriented community showing state of the art expertise in traditional automated optimization software on current computer technology to improve the capability to optimize aircraft shapes

*Quality and Safety in Imaging* Lluís Donoso-Bach, Giles W. L. Boland, 2018-09-18 This book provides a roadmap for optimizing quality and safety within radiology practices whether academic or private and irrespective of their national setting All aspects of the radiology workflow are addressed from imaging appropriateness examination scheduling and patient preparation through to imaging protocol optimization including radiation dose management modality operations reporting including structured reporting and report communication The book highlights innovative IT tools including clinical decision support that drive compliance with national best practice standards and guidelines The use of big data tools to manage and enhance clinical delivery is addressed Finally metrics designed to measure the value that radiology brings to patient care and patient

outcomes are introduced Readers wishing to deepen their understanding of contemporary best practices regarding quality and safety will find this book to be a rich source of practical information     Cruising World ,1993-01     **Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing** David H. Bailey,1995-01-01  
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*Fatigue, Fracture, and High Temperature Design Methods in Pressure Vessels and Piping* Kenneth K. Yoon,1998  
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