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Nota di contenuto	Front Cover; PRESSURE VESSEL DESIGN MANUAL; Copyright; Contents; Preface to the 4th Edition; Chapter1 - General Topics; Design Philosophy; Stress Analysis; Stress/Failure Theories; Failures in Pressure Vessels; Loadings; Stress; Thermal Stresses; Discontinuity Stresses; Fatigue Analysis for Cyclic Service; Creep; Cryogenic Applications; Service Considerations; Miscellaneous Design Considerations; Items to be Included in a User's Design Specification (UDS) for ASME VIII-2 Vessels; References; Chapter 2 - General Design; Procedure 2-1: General Vessel Formulas [1,2] Procedure 2-2: External Pressure Design Procedure 2-3: Properties of Stiffening Rings; Procedure 2-4: Code Case 2286 [1,8,21]; Procedure 2-5: Design of Cones; Procedure 2-6: Design of Toriconical Transitions [1,3]; Procedure 2-7: Stresses in Heads Due to Internal Pressure [2,3]; Procedure 2-8: Design of Intermediate Heads [1,3]; Procedure 2-9: Design of Flat Heads [1,2,4,5,6]; Procedure 2-10: Design of Large Openings in Flat Heads [1]; Procedure 2-11: Calculate MAP, MAWP, and Test Pressures; Procedure 2-12: Nozzle Reinforcement; Procedure 2-13 Find or Revise the Center of Gravity of a Vessel Procedure 2-14: Minimum Design Metal Temperature (MDMT) Procedure 2-15: Buckling of Thin Wall Cylindrical Shells [21]; Procedure 2-16: Optimum Vessel Proportions [16-20]; Procedure 2-17: Estimating Weights of Vessels and Vessel Components; Procedure 2-18: Design of

Jacketed Vessels; Procedure 2-19: Forming Strains/Fiber Elongation; References; Chapter3 - Flange Design; Introduction; Procedure 3-1: Design of Flanges [1-4]; Procedure 3-2: Design of Spherically Dished Covers; Procedure 3-3: Design of Blind Flanges with Openings [1,4]; Procedure 3-4: Bolt Torque Required for Sealing Flanges [5-7] Procedure 3-5: Design of Studding Outlets Procedure 3-6: Reinforcement for Studding Outlets; Procedure 3-7: Studding Flanges; Procedure 3-8: Design of Elliptical, Internal Manways; Procedure 3-9: Through Nozzles; References; Chapter4 - Design of Vessel Supports; Introduction: Support Structures; Procedure 4-1: Wind Design Per ASCE [1]; Procedure 4-2: Seismic Design - General; Procedure 4-3: Seismic Design for Vessels [2]; Procedure 4-4: Seismic Design - Vessel on Unbraced Legs [4-7]; Procedure 4-5: Seismic Design - Vessel on Braced Legs; Procedure 4-6: Seismic Design - Vessel on Rings [4,5,8] Procedure 4-7: Seismic Design - Vessel on Lugs [5,8-13] Procedure 4-8: Seismic Design - Vessel on Skirt [1,2,3]; Procedure 4-9: Seismic Design - Vessel on Conical Skirt; Procedure 4-10: Design of Horizontal Vessel on Saddles [1,3,14,15]; Procedure 4-11: Design of Saddle Supports for Large Vessels [4,15-17,20]; Procedure 4-12: Design of Base Plates for Legs [20,21]; Procedure 4-13: Design of Lug Supports; Procedure 4-14: Design of Base Details for Vertical Vessels - Shifted Neutral Axis Method [4,9,13,17,18] Procedure 4-15: Design of Base Details for Vertical Vessels - Centered Neutral Axis Method

Sommario/riassunto

Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-

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Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 1695
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Nota di contenuto	Information Systems, Mathematics and Data Analyses -- Anomaly detection in IoT using Extended Isolation Forest -- A novel dimensional reduction strategy based on a fine-pruned decision tree classifier for detecting DDoS attacks in cloud computing environments -- A survey on Large Dataset Minimum Spanning Trees -- Characterization of Simple Sequence Repeats: Evolutionary Implications from Ancient Human Mitochondrial Genome -- Comparative Exploration of Statistical Techniques for Landslide Identification and Zonation Mapping and Assessment: A Critical Review -- Enhanced Security and Privacy for IoT based Locker System operated at Low Frequency Spectrum using Blockchain -- Genetic Algorithm Based Adaptive PID Tuning of Time

Delay Process -- Hybridization of Sine-Cosine Algorithm with K-Means for Pathology Image Clustering -- Industrial Warehouse Robot Simulation Using ROS -- Major Challenges and Threats of Blockchain Technology -- SecVT:Securing the Vehicles of Tomorrow using Blockchain Technology -- Applied Artificial Intelligence -- A Comparative Analysis of Machine Learning Based Sentiment Analysis -- ANN-Based Performance Prediction in MoCs -- Assessment of shallow and deep learning models for prediction of sea surface temperature -- Bioinformatics Analysis of Oral Squamous Cell Carcinomas and Their Interaction to Identify Molecular Signatures -- Music Learning Android App Development for Autistic Children -- NecklaceFIR: A large volume benchmarked necklace dataset for fashion image retrieval -- Optimal Sample Size Calculation for Machine Learning Based Analysis for Suicide Ideation -- Query Focused Video Summarization: A Review -- Sleep-wake classification using acceleration data from wearable wrist worn sensors: review -- Understanding Fake News Detection on Social Media: A Survey on Methodologies and Datasets -- Freshness quality detection of tomatoes using computer vision -- Facial Gesture Recognition based Real Time Gaming for Physically Impaired -- Deep Learning approaches for analysis and detection of Tomato leaf diseases -- Prediction of Impact Energy of Steel using Artificial Neural Network -- A New Method of Galaxy Classification Using Optimal Convolution Neural Network -- Early Detection of Pneumonia using Deep Learning Approach -- Concrete Crack Segmentation using Histogram Based Fast Clustering and Morphological Operators -- Human Gender Classification based on Hand Images using Deep Learning -- Artificial Intelligence based Smart Government Enterprise Architecture (AI-SGEA) Framework.

Sommario/riassunto

This book constitutes the refereed proceedings of the First International Symposium on Artificial Intelligence, ISAI 2022, held in Haldia, India, during February 17-22, 2022. The 30 full papers included in this book were carefully reviewed and selected from 75 submissions. They were organized in topical sections as follows: information systems, mathematics and data analyses; and applied artificial intelligence. .
