

FUTURE
ENGINEERS
with
MIDAS

The Key to Unlocking
Student Career Success





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VISION &
MISSION

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About MIDAS IT

VISION & MISSION

“

We value the importance of technical knowledge and practical skills in students' career development.

”

However,

78%

a recent survey of 100 engineers who graduated from Civil Engineering programs in the United States revealed that 78% of them believe that their civil engineering education was not practical enough.



University

We recognize and appreciate the efforts made by universities to provide their students with opportunities to develop their skills and knowledge, including access to industry-related software, internships, and lectures by practicing engineers.



Platform

Our platform is designed to complement and enhance the efforts of universities by providing customized education, practical application of textbook examples through software utilization, and opportunities for communication and exchange with industry professionals.



Partnership

By working in partnership with universities, our goal is to provide students with the tools and resources they need to become successful, well-rounded civil engineers with the practical skills and knowledge necessary for their future careers.

CORE BENEFITS

“

MIDAS empowers engineering students for career success with software, educational support, and an expert network.

”

1

Education

Offers customized content and tutorial videos on structural mechanics and reinforced concrete mechanics, along with related software exercises for undergraduate students. The goal is to create an environment that enables students to learn theory and designing simultaneously. Our program emphasizes practical application, providing hands-on experience with industry-standard software and developing skills necessary for success in future careers.

2

Career

Provides technical counseling and expert advice to help students solve problems they may face during their capstone projects. In addition, MIDAS hosts Online consultations that bring experienced engineers together with students to discuss topics of interest such as job duties, career paths, and the civil engineering industry, while also allowing for the formation of close networks between participants.

3

Research

Facilitates research analysis and simulation: midas Civil, GTS NX, FEA NX, and Gen software products facilitate civil engineering researchers in their analysis and simulation of complex structures and ground structures. These powerful software products offer advanced features for modeling, design, and visualization, resulting in accurate and reliable results that validate thesis arguments. Additionally, they provide a platform for researchers to collaborate effectively by sharing their findings and results.

1

Education

Engineering Toolkits :

Theory Meets Practice

Shaping the future of engineering education with MIDAS' mastery of theory and software.



1

Educational Support

We support civil engineering students with practical knowledge, industry insights, and software products for successful careers.



OUR CORE BENEFITS

Various Features

- Comprehensive lectures and example problems covering the A to Z process of all design and analysis software.
- Interactive software products provide practical experience, improve engineering efficiency, and prepare students for real-world challenges.
- Flexibility and self-paced learning allow students to learn at their own pace and balance academic and personal commitments.
- Confidence building in engineering skills and knowledge, which can benefit future job opportunities, internships, and scholarship applications.

Information Resources

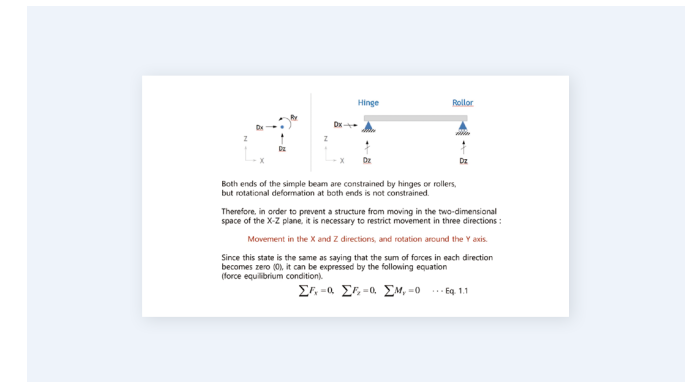
- Practical application of theoretical knowledge to real-world engineering problems
- Project experiences of well-known engineers
- Job descriptions by employment sector after graduation
- Descriptions of landmark projects
- Latest industry trends and issues

Practice Problem-Solving with MIDAS Software

Enhances students' understanding of civil engineering concepts by utilizing our software to solve practice problems found in their textbooks.

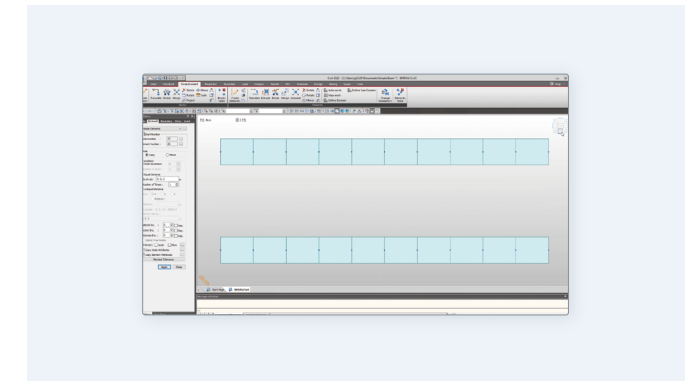
1st Step : Review of Engineers Backgrounds

Develops a deep understanding of theoretical concepts in structures, which is essential for designing and solving problems.



2nd Step : Computational Analysis Using MIDAS Software

Practical experience with MIDAS software for civil engineering students to improve problem-solving skills, including comparing results with hand calculations.



3rd Step : Expand to Real Life Examples

Applies theory and practices to real-life situations with MIDAS software, fostering critical thinking and preparing civil engineering students for successful industry careers.



Structural Analysis

- 1 How to Use midas Civil?
- 2 Simple Beam Analysis
- 3 Cantilever Beam Analysis
- 4 Truss Analysis
- 5 Arch Analysis
- 6 Continuous Beam Analysis
- 7 Frame Analysis
- 8 Inclined Support
- 9 Spring
- 10 Specified Displacement
- 11 Moving Load

Geotechnical Analysis

- 1 How to Use GTS NX?
- 2 Concept of Geotechnical Numerical Analysis
- 3 Linear Numerical Analysis – Elastic Analysis
- 4 Nonlinear Numerical Analysis – Elasto-plastic Analysis
- 5 Soil stress
- 6 Soil deformation
- 7 Shear Stress
- 8 Bearing Capacity
- 9 Slope Stability
- 10 Earth pressure
- 11 Seepage Analysis

2D / 3D CAD

- 1 How to Use midas CAD?
- 2 How to Use midas CIM?
- 3 Draw Reinforced Beam Drawing Using 2D CAD
- 4 Extract Reinforced Beam Drawing from 3D BIM Model

2

Career

Bridging the Gap:

Connecting Students & Engineers

Helping students navigate the world of civil engineering with the guidance of experienced professionals.



2

Career Support

We offer students and professors a network system, along with the Future Leader Network, to facilitate knowledge sharing and idea exchange in Civil engineering.



OUR CORE BENEFITS

Future Leader Network

- 01 Networking
- 02 Capston Advice
- 03 Career Guidance
- 04 Experience Sharing

M.E.C

Students

01 Networking

By participating in networking events and connecting with alumni, students can expand their professional network and gain insights into their desired career field.



02 Capston Advice

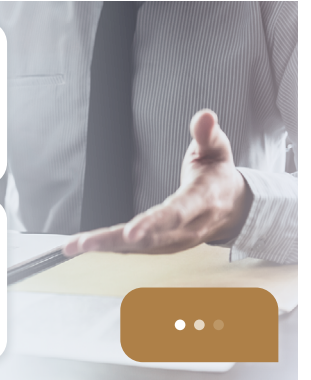
With our capstone consulting services, students can receive expert feedback and advice on their projects, ensuring that they are prepared for success in their future endeavors.

Q.1

What are the critical components of a bridge's load-carrying capacity, and how can one optimize the design to enhance its overall structural performance?

Q.2

How do you account for dynamic loads, such as wind, traffic, and seismic activity, during the design process to ensure the long-term stability and safety of a bridge?



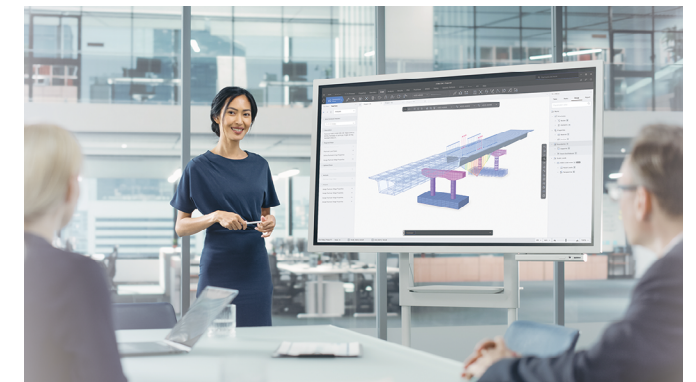
03 Career Guidance

Through our career guidance services, students can receive support with job searching, resume writing, and interview preparation, setting them on the path to a successful career.



04 Experience Sharing

We promote experience sharing as a vital aspect of professional development, where students can share their experiences and gain valuable insights from their peers.



3

Research

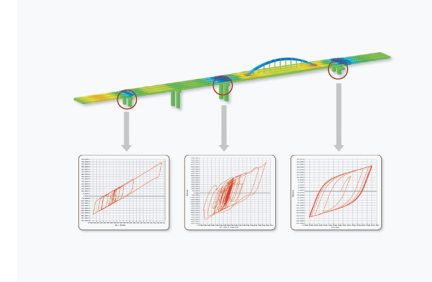
Pushing the Boundaries: Finite Element Methods for Modern Engineering

Supporting engineers to achieve innovative solutions by offering advanced analysis capabilities.

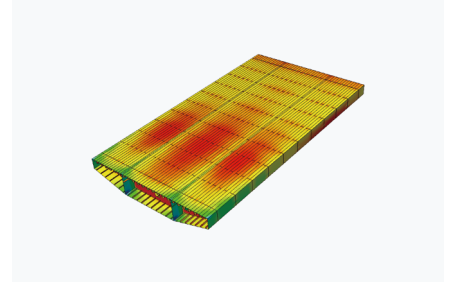
Advanced Analysis Areas

Contents

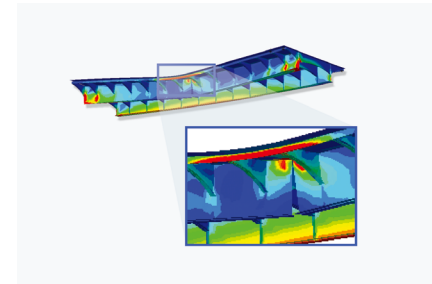
P.16 Dynamic Analysis



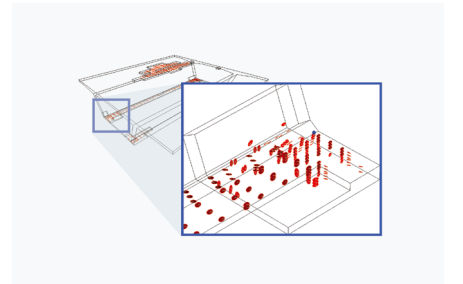
P.17 Heat Transfer/Stress Analysis



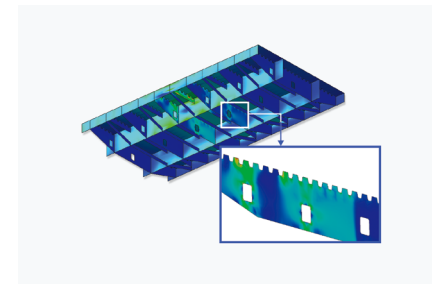
P.18 Nonlinear Analysis



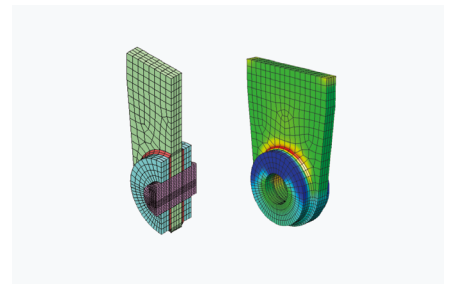
P.19 Crack Analysis



P.20 Fatigue Analysis



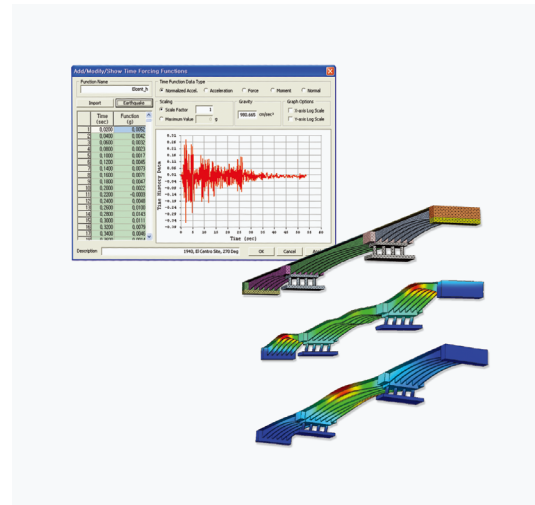
P.21 Contact Analysis



Advanced Analysis Areas

Dynamic Analysis

- Transient / Frequency Response
 - Direct Integration
 - Mode Superposition
 - Time Forcing Function DB
 - Time Varying Loads
 - Ground Acceleration
 - Time History Plot/Graph
- Spectrum Response
 - SRSS, CQC, ABS, NRL, TENP
 - Design Spectrum DB
- Time History Analysis(Linear/Nonlinear)
 - Seismic Data Generator



Published Research Papers

midas Civil

1. "The Whole Modeling and Structural Seismic Analysis of Frame Bridge in Sluice Based on midas Civil"
2. "Analysis of Seismic Safety of Highway Bridges Based on midas Civil Computer Technology"
3. "Response Structure Analysis of Prestressed Box Girder Concrete Bridge Due to Earthquake Loads"
4. "Seismic Performance Analysis of Continuous Rigid Frame Bridges in Expressway under Non-linear Interactions of Soil-Piles"

midas Gen

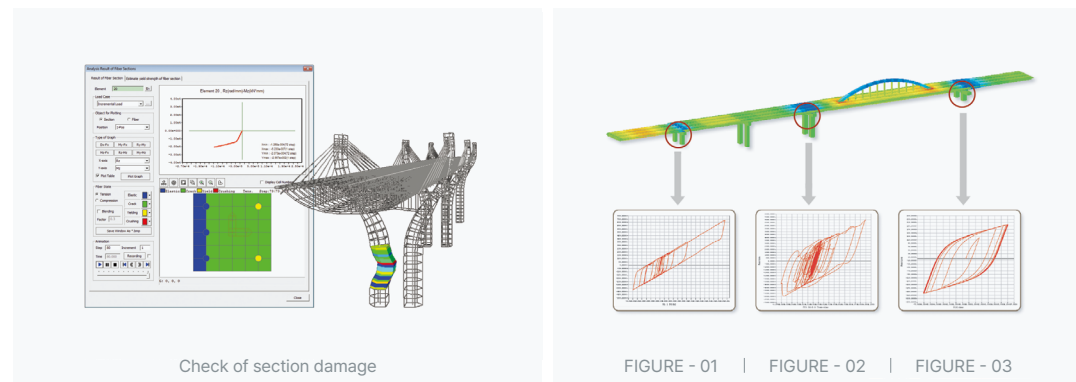
1. "The Seismic Response of Structural Outrigger Systems in Tall Buildings"
2. "Effects of Opening Dimension in Shear Wall on the Behavior of High-Rise Building Structure due to Earthquake Load"
3. "Seismic Response of Multistoried Building with Different Foundations Considering Interaction Effects"

midas GTS NX

1. "The Spectral Cell Method in Nonlinear Earthquake Modeling"
2. "Numerical Simulation and Dynamic Analysis of Single-Hole Cliff-Side Loess Cave Dwelling under Seismic Actions"
3. "Seismic Analysis of RC High-Rise Buildings Rested on Cellular Raft"
4. "Analysis of the Influence of Underground Traffic Tunnels by the Explosion Seismic Effect of the Storage Yard"

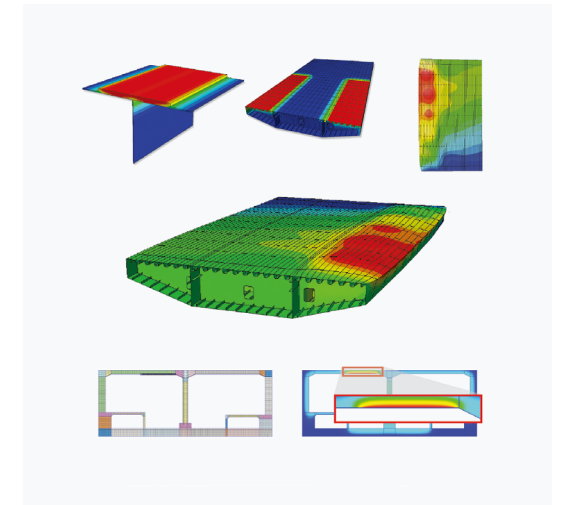
FIGURE

- 01 - Lead Rubber Bearing
- 02 - Friction Pendulum System
- 03 - Hysteretic System



Heat Transfer/Stress Analysis

- Heat Transfer
 - Steady-State & Transient
 - Conduction, Convection
 - Cooling Pipe
 - Heat Flux
 - Heat Flow
 - Temperature Gradient Display



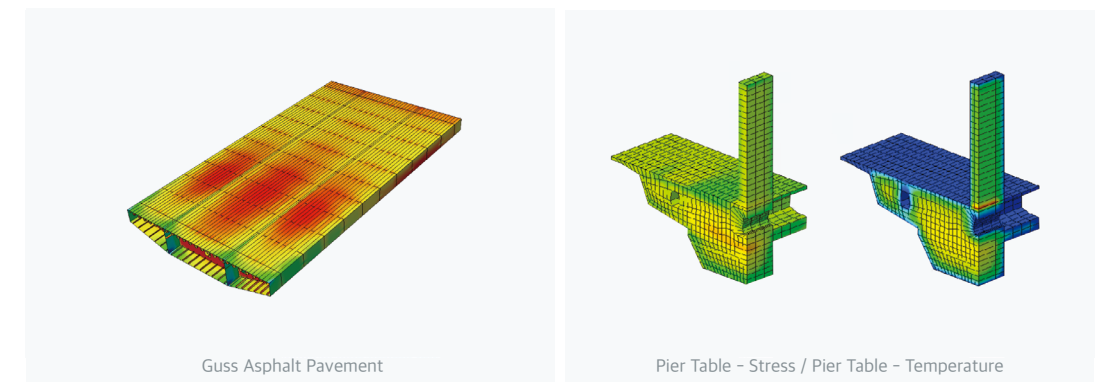
Published Research Papers

midas Civil

1. "Influence of Temperature on the Natural Vibration Characteristics of Simply Supported Reinforced Concrete Beam."
2. "Reducing Temperature Difference in Mass Concrete by Surface Insulation."
3. "Influence of Size and Construction Schedule of Massive Concrete Structures on Its Temperature Regime."
4. "Effect of Temperature on Prestressed Concrete Bridge Girder Strand Stress During Fabrication."
5. "Mathematical Model of Temperature Regime and Thermal Stress State of Roller-Compacted Concrete Gravity Dam."

midas FEA NX

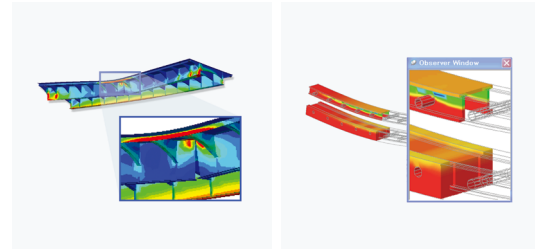
1. "Consideration of Temperature Stresses in the Calculation of Crack Formation in Concrete Massifs of Buildings."
2. "Curing Parameters' Influences of Early-Age Temperature Field in Concrete Continuous Rigid Frame Bridge."
3. "Study on Temperature Control of Gravity Anchorage without Cooling Water."
4. "Modeling the Effect of Temperature on Strength Development for Cast-in-Place Box Girder."
5. "Research on Temperature Effects of the Pre-Stressed Concrete Box Girder Bridge."



Advanced Analysis Areas

Nonlinear Analysis

- **Material Nonlinearity**
 - von Mises, Tresca, Mohr-Coulomb
 - Drucker-Prager, Rankine, Hoek Brown
 - Hyperbolic, Strain Softening, Cam Clay
 - Modified Cam Clay, Jardine, D-min
 - Soft Soil, Concrete Smeared Crack
 - Masonry, Hardening Soil
 - User-Supplied Material
- **Interface Models**
 - Coulomb Friction
 - Discrete Cracking
 - Bond-Slip
 - Nonlinear Elastic
 - Combined (Cracking-Shearing-Crushing)
- **Geometric Nonlinearity**
 - Total Lagrangian, Co-rotational
- **Iteration Methods**
 - Full Newton-Raphson
 - Modified Newton-Raphson
 - Arc-Length Method
 - Initial Stiffness, Quasi-Newton(Secant)



Published Research Papers

midas Civil

1. "Seismic Performance Analysis of Continuous Rigid Frame Bridges in Expressway under Non-linear Interactions of Soil-Piles."

midas Gen

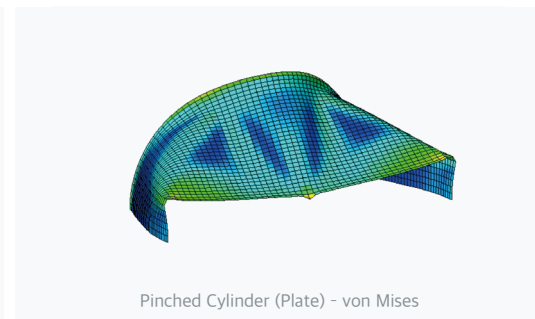
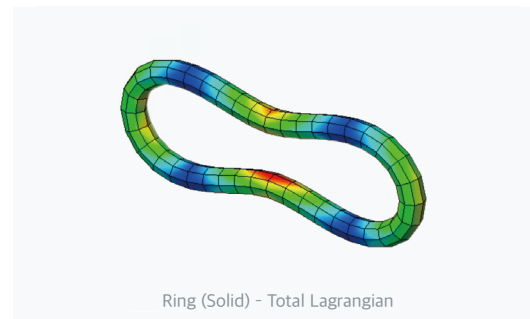
1. "Numerical Investigation of Non-linear Equivalent-Frame Models for Regular Masonry Walls."

midas GTS NX

1. "The Spectral Cell Method in Nonlinear Earthquake Modeling."
2. "Simplified Model for Nonlinear Frequency-Dependent Soil with Shallow Foundation."
3. "Nonlinear Dynamic Soil Structure Interaction in Adjacent Basement."

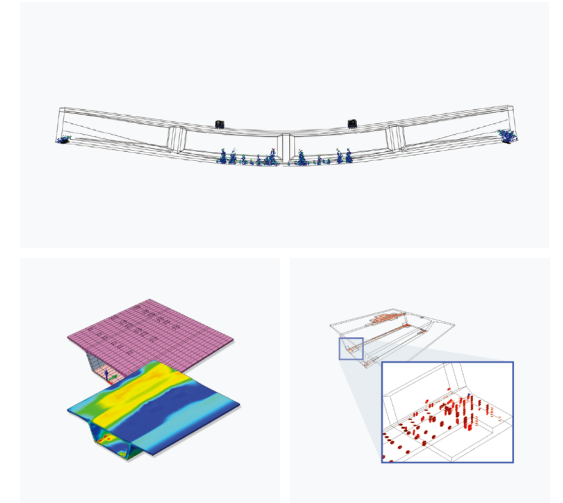
midas FEA NX

1. "Masonry Columns Strengthened with FRCM System: Numerical and Experimental Evaluation."
2. "Numerical Analysis of Masonry Confined by FRCM."
3. "FE vs. DE Modeling for the Nonlinear Dynamics of a Historic Church in Central Italy."



Crack Analysis

- **Material Models**
 - Smeared
 - Crack Index
- **Total Strain Crack**
 - Fixed & Rotating Crack Model
- **Discrete Crack Model**
 - Interface Nonlinearity
- **Results**
 - Crack Pattern(Stress/Strain)
 - Element Status(Crack, Plasticity)



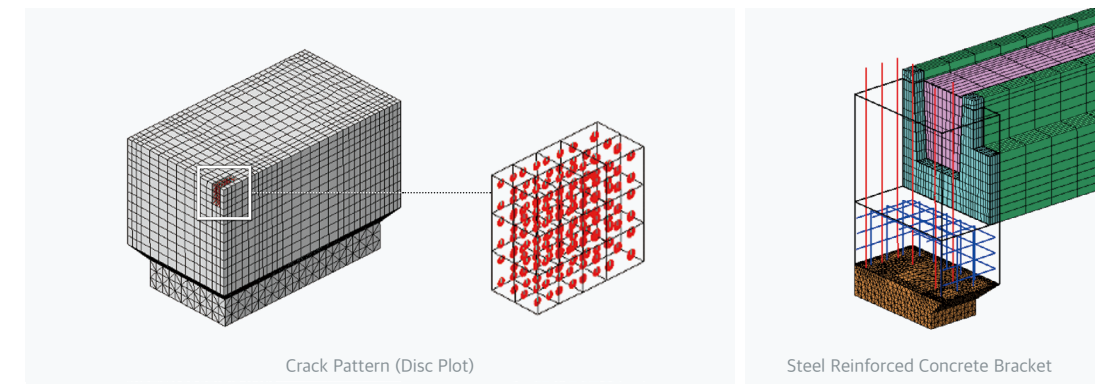
Published Research Papers

midas Civil

1. "An Early-age Evaluation of Thermal Cracking Index of Heavy Concrete Applying for Airport Pavement."
2. "The Effects of Insulation Thickness on Temperature Field and Evaluating Cracking in the Mass Concrete."
3. "Experimental and Numerical Studies of Controlling Thermal Cracks in Mass Concrete Foundation by Circulating Water."

midas FEA NX

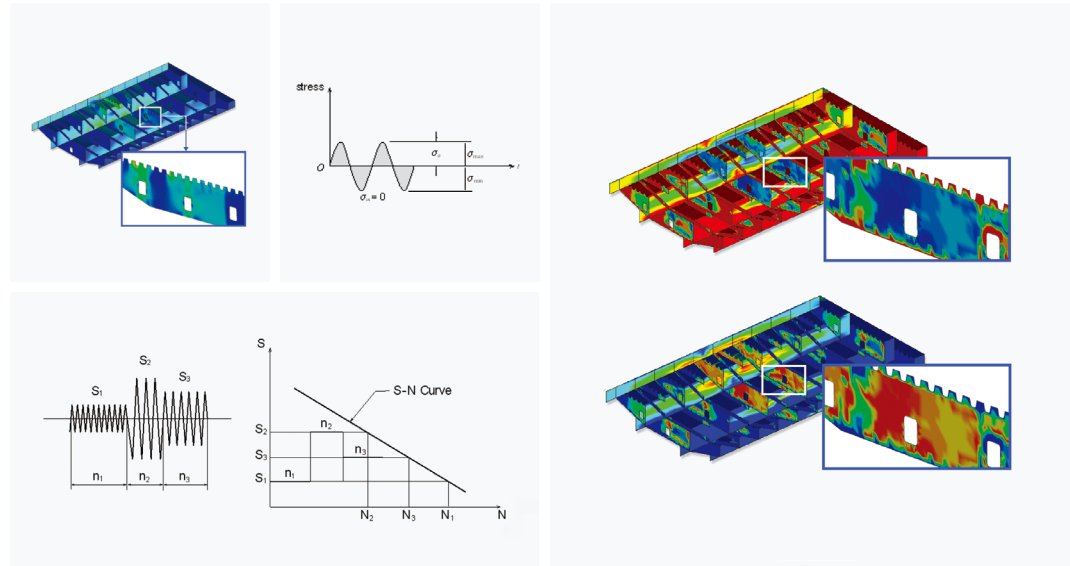
1. "A Numerical Study on the Control of Horizontal Cracking at the Ends of BS22 Hollow-type PC-girders Utilizing midas FEA."
2. "Time-dependent Behaviour of Cracked, Partially Bonded Reinforced Concrete Beams Under Repeated and Sustained Loads."
3. "Consideration of Temperature Stresses in the Calculation of Crack Formation in Concrete Massifs of Buildings."
4. "Analysis of the Generating and Influencing Factors of Vertical Cracking in Abutments during Construction."
5. "Calculation of Crack Formation During the Thermal Stress State of Concrete Masses and Development of Measures to Improve the Operational Properties of Concrete."



Advanced Analysis Areas

Fatigue Analysis

- **Methods and parameters**
 - S-N Method(Stress-Life)
 - Load / Stress History
 - Rainflow Counting
 - Mean Stress Corrections
 - Stress Concentration Factor
 - Modifying Factors
- **Results**
 - Cycles to Failure
 - Safety Factor
(Cycles to Failure /Desired Repetition)
 - Damage estimation

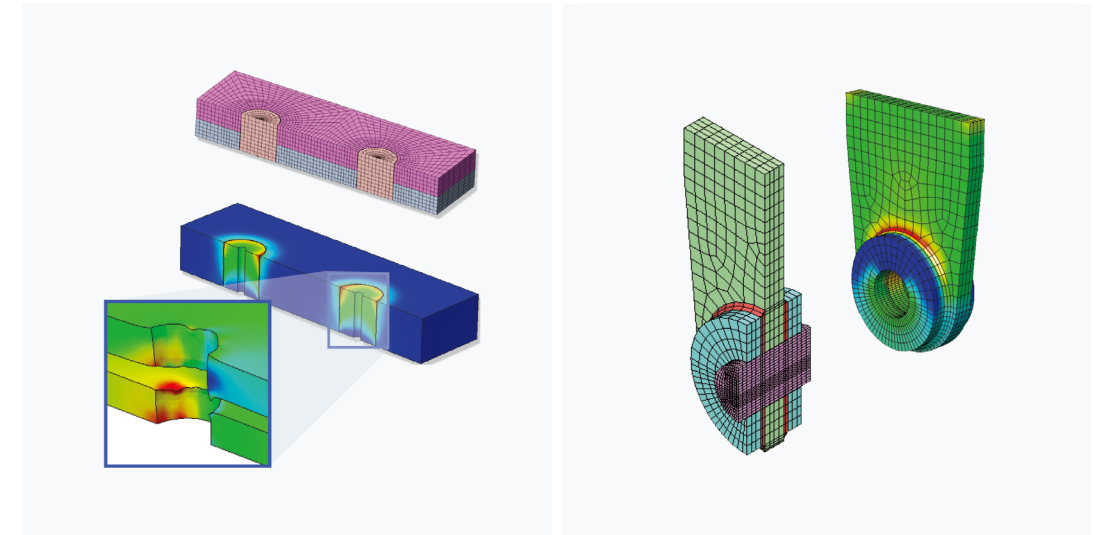


Possible Topics for Research Papers on Fatigue Analysis in Civil Engineering

1. "Assessing the Reliability of S-N Method for Fatigue Analysis of Steel Structures: A Comparative Study"
2. "Investigation of Load and Stress History Effects on Fatigue Life Prediction of Reinforced Concrete Structures"
3. "A Comparative Study of Rainflow Counting Methods for Fatigue Analysis of Welded Steel Structures"
4. "Mean Stress Corrections for Life Prediction of Composite Materials Under Cyclic Loading"
5. "Application of Stress Concentration Factors to Predict Fatigue Life of Notched Components: A Numerical Study"
6. "Modifying Factors for Fatigue Analysis of Offshore Wind Turbine Components: A Case Study"

Contact Analysis

- **Contact Type**
 - Weld Contact, General Contact
- **Behaviors**
 - Material Nonlinearity
 - Geometric Nonlinearity
- **Results**
 - Displacement
 - Stress
 - Contact Force



Possible Topics for Research Papers on Contact Analysis in Civil Engineering

1. "Investigation of Weld Contact Analysis Methods for Predicting Residual Stresses in Welded Structures"
2. "Evaluation of General Contact Algorithms for Modeling Complex Mechanical Interactions Between Rough Surfaces"
3. "Assessment of Material Nonlinearity Effects on Contact Behavior Between Rubber and Concrete Materials under Static Loading"
4. "A Numerical Study of Geometric Nonlinearity Effects on Contact Pressure Distributions in Bolted Joints"
5. "Development of a Contact Analysis Model for Evaluating the Effect of Joint Stiffness on Displacement Response of Composite Structures"
6. "Comparison of Different Contact Force Calculation Methods for Modeling Frictional Contact Between Elastic Solids"

3

Research

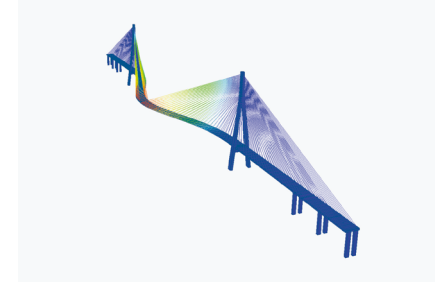
Across the Engineering Spectrum: Innovative Solutions for Diverse Applications

Advancing engineering through innovative research and diverse application areas.

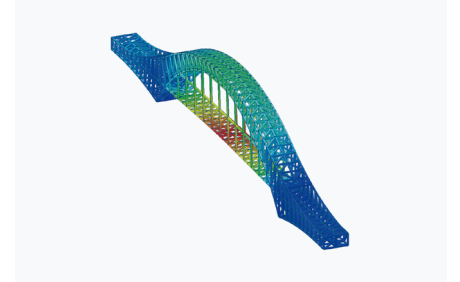
Practical Application Areas

Contents

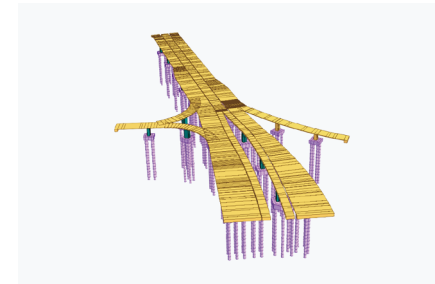
P.24 Cable Bridge



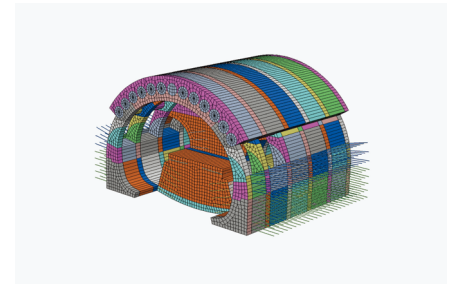
P.25 Arch Bridge



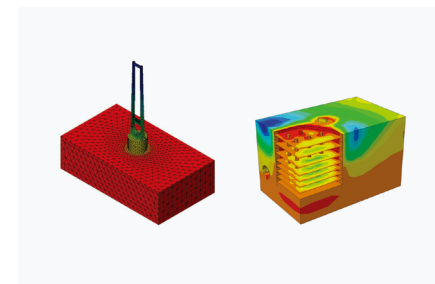
P.26 PSC Box & Other Structures



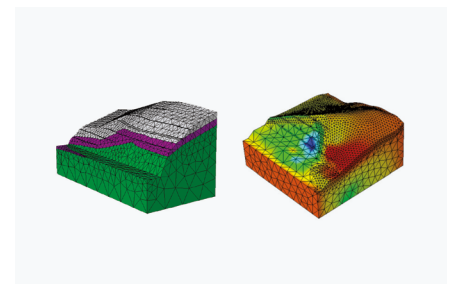
P.27 Tunnel



P.28 Foundation & Excavation



P.29 Slope & Soft Soil



Cable Bridge



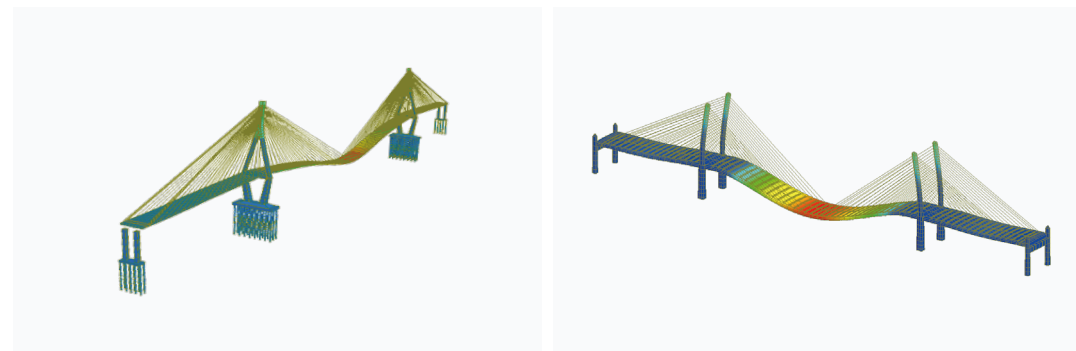
Published Research Papers

midas Civil

1. "Static Analysis of PC Slab Stiffened Beam Suspension Bridge under Temperature."
2. "Comparative Analysis of Spatial Stress in the Joint Zone of Tower Pier under Different Systems of Cable-Stayed Bridge."
3. "Evaluation of Cable Force Changes Effects on Cable Stayed Bridge."
4. "Design of Ciodeng Suspension Bridge, Indonesia, for Pedestrian."
5. "Practical Simplified Computing Method of Natural Vibration Frequency of Cable-Stayed Bridge during Construction Stage."
6. "Study on the Length of Cable-Free Zone of Wide Cantilever Cable Stayed Bridge with Low Pylon."
7. "Numerical and Theoretical Research on Spatial Shear Lag Effect of Self-Anchored Suspension Bridge Steel Box Girder."
8. "Shear Lag Effect Study of a Composite Girder Cable-Stayed Bridge During Construction."
9. "Stability Analysis of Synchronous Construction of Towers and Beams of Cable-Stayed Bridge."
10. "Research for the Structure System of Curved Wide Extra-Dosed Cable-Stayed Bridge."

midas FEA NX

1. "Study on Arrangement of Cooling Water Pipe to Control Hydration Heat of Concrete in Beam of Cable-Stayed Bridge."



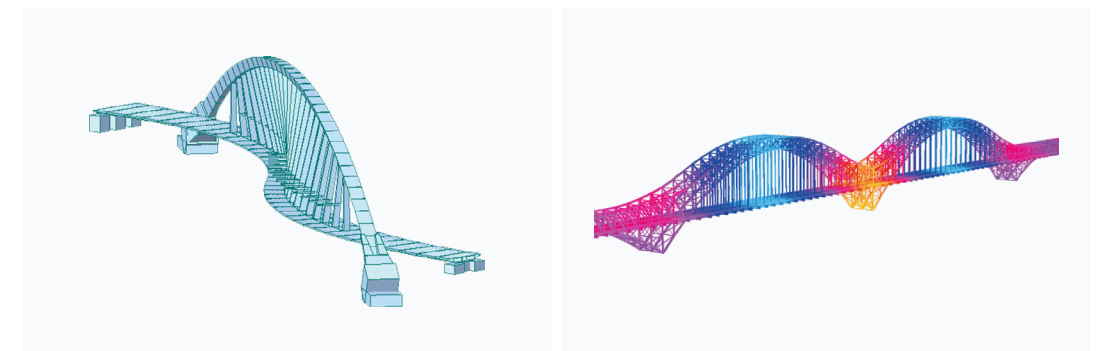
Arch Bridge



Published Research Papers

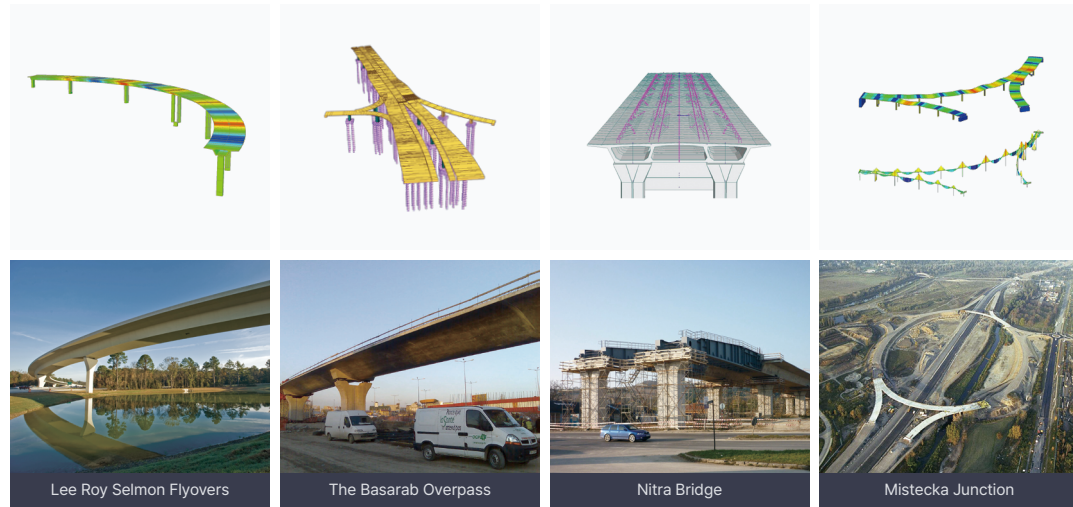
midas Civil

1. "Defining Appropriate Temperature for Perfect Erection Time of Steel Arch Bridge Closure to Minimize the Effect of the Thermal Stress. Case Study: The New Kutai Kartenagara Bridge, Indonesia."
2. "Monitoring of Daily Temperature Effect on Deck Deformation of Concrete Arch Bridge."
3. "Numerical and Theoretical Analysis of Spatial Shear Lag Effect in Through Wide Box Bowstring Arch Bridge Main Girder."
4. "Multiple Tests for Dynamic Identification of a Reinforced Concrete Multi-Span Arch Bridge."
5. "Stability Analysis of Double X-Shape Arch Bridge During Construction."
6. "Arch-Axis Coefficient Optimization of Long-Span Deck-Type Concrete-Filled Steel Tubular Arch Bridge."
7. "Construction Simulation Analysis of 60m-Span Concrete Filled Steel Tube Arch Bridge."
8. "Study on Load Test of 100m Cross-Reinforced Deck Type Concrete Box Arch Bridge."
9. "Analysis of Static Load Test of a Masonry Arch Bridge."
10. "A Comparative Analysis of Axis Types of High-Speed Railway CFST Arch Bridge."



Practical Application Areas

PSC Box & Other Structures



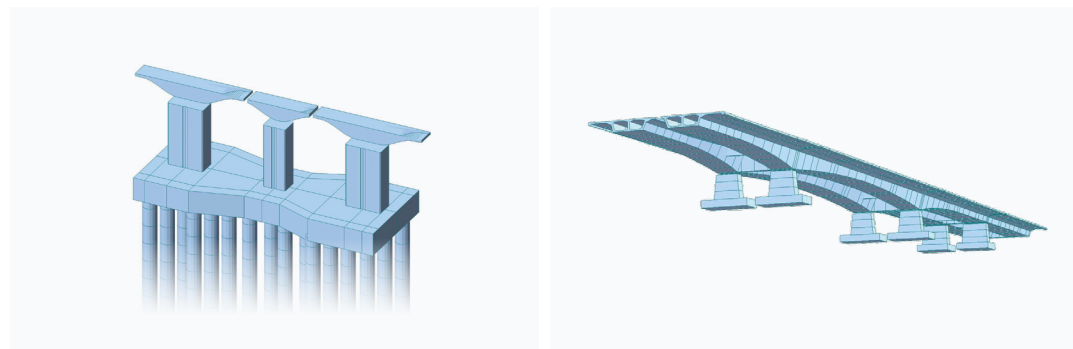
Published Research Papers

midas Civil

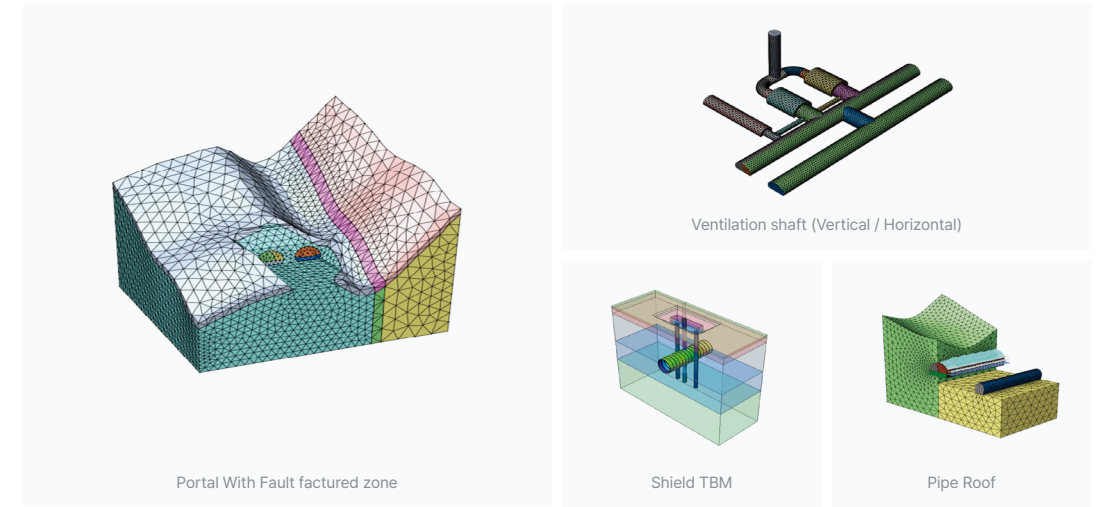
1. "Static Analysis of PC Slab Stiffened Beam Suspension Bridge under Temperature."
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3. "Evaluation of Cable Force Changes Effects on Cable Stayed Bridge."
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midas FEA NX

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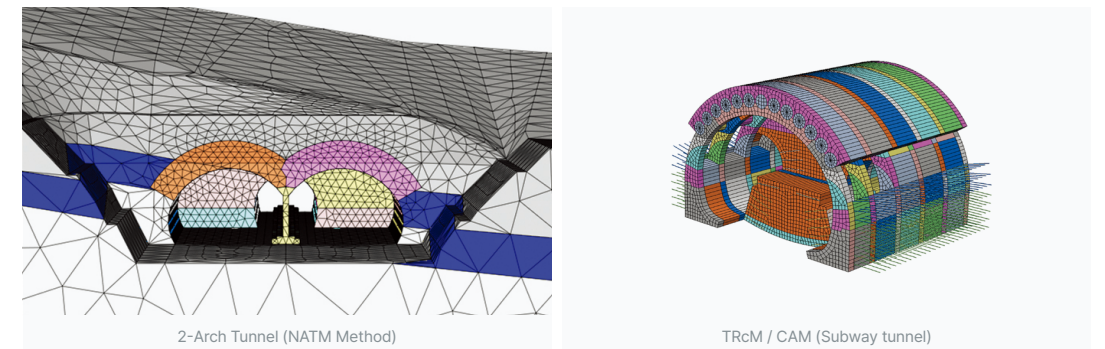
Tunnel



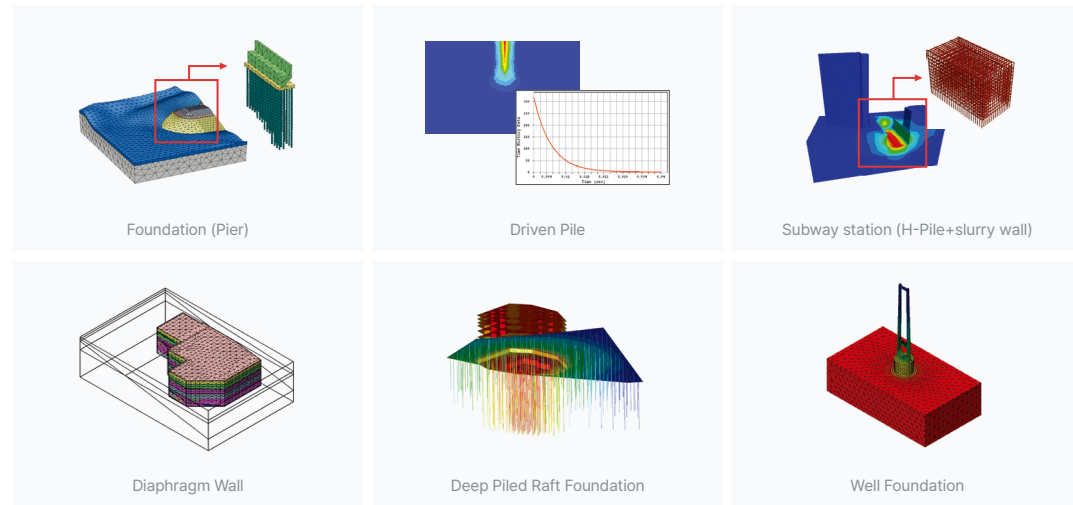
Published Research Papers

midas GTS NX

1. "Numerical Simulation and Analysis of Crack Disease in Tunnel Lining Structure."
2. "Study on Influence of Construction Process of Double-Line Shield Tunnels on Frame Structure."
3. "Stability Analysis of Super-Large-Section Tunnel in Loess Ground Considering Water Infiltration Caused by Irrigation."
4. "Three-Dimensional Face Stability Analysis of Pressurized Tunnels Driven in a Multilayered Purely Frictional Medium."
5. "Water Leakage Susceptible Areas in Loess Multi-Arch Tunnel Operation under the Lateral Recharge Conditions."
6. "Mechanical Aspects of Construction of New TBM Tunnel Under Existing Structures."
7. "Elasto-Plastic Solution for Shallow Tunnel in Semi-Infinite Space."
8. "A Theoretical Model for the Circumferential Strain of Immersed Tunnel Elements Under Tidal Load."
9. "Study on Stability of Portal Section of High Slope Tunnel Based on Numerical Analysis."
10. "Analysis of Construction Settlement of Shield Tunnel Crossing Metro Operating Tunnel."
11. "Evaluation on Application of Numerical Software in Stability Analysis of Tunnel Engineering."
12. "Force and Deformation Mechanism of Great Pipe Shed Advanced Support in Subway Tunnel."
13. "Application of Mining Method OC Section in Reverse Excavation Tunnel."
14. "The Research and Control Measures of the Influence on the Complicated Tie-Line and the Bridge Under the Shield Tunnel."



Foundation & Excavation



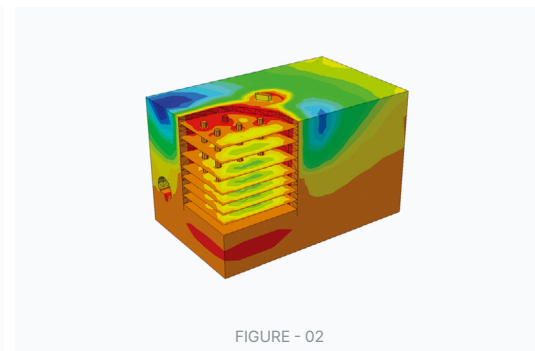
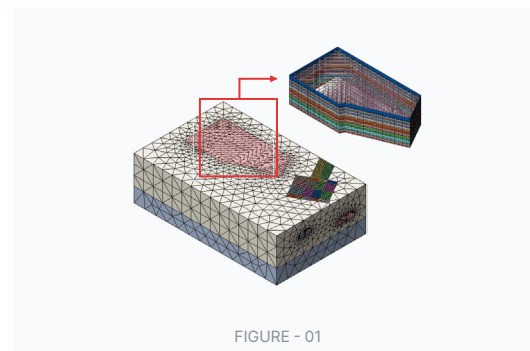
Published Research Papers

midas GTS NX

1. "The Numerical Simulation and Deformation Analysis to the Deep Foundation Pit of Diaphragm Wall Based on midas GTS NX."
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FIGURE

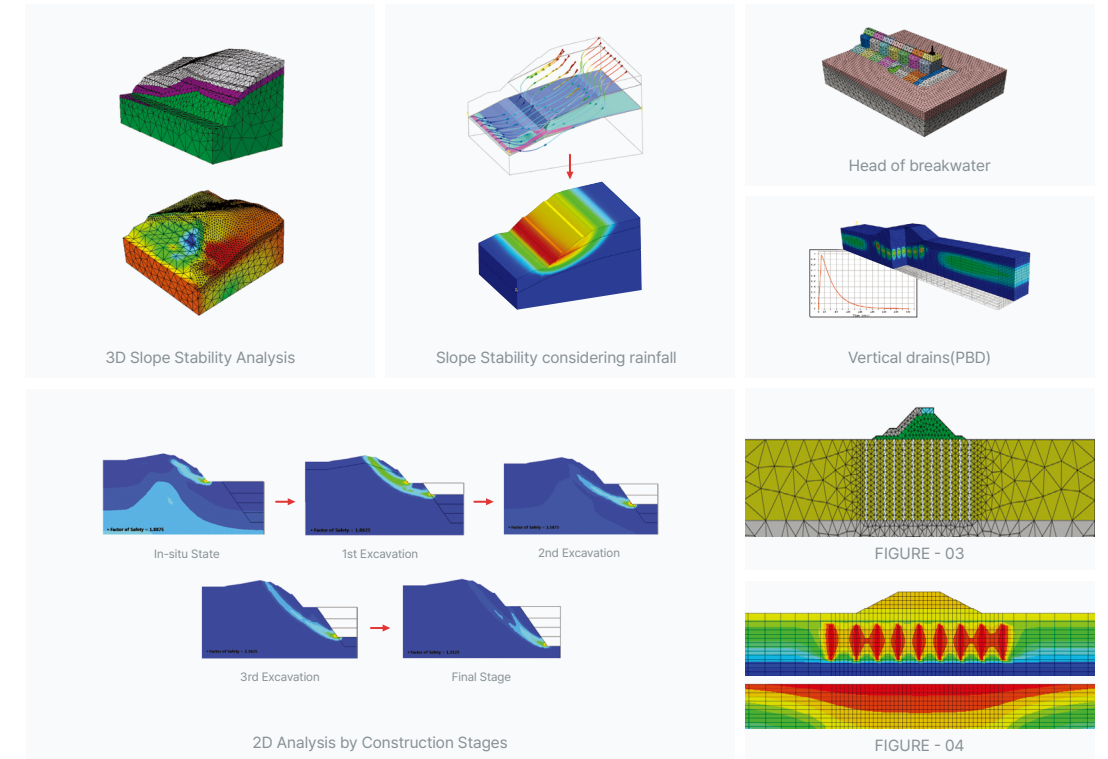
- 01 - Ground shoring for excavation for a tall building foundation
- 02 - Stress distribution of subway line and ventilation shaft by staged excavation



Slope & Soft Soil

FIGURE

- 03 - Consolidation analysis for SCP improvement in soft clay
- 04 - Suction Drain method



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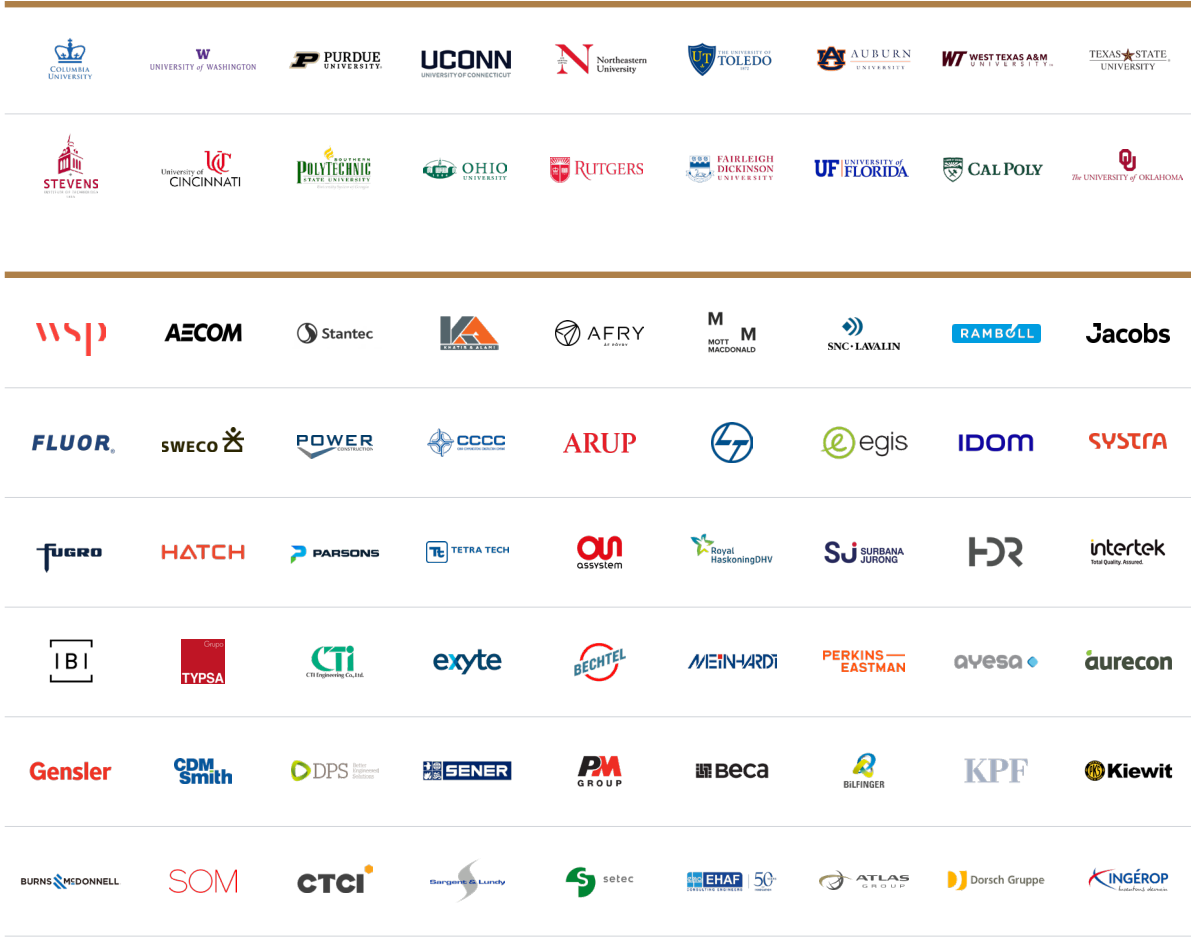
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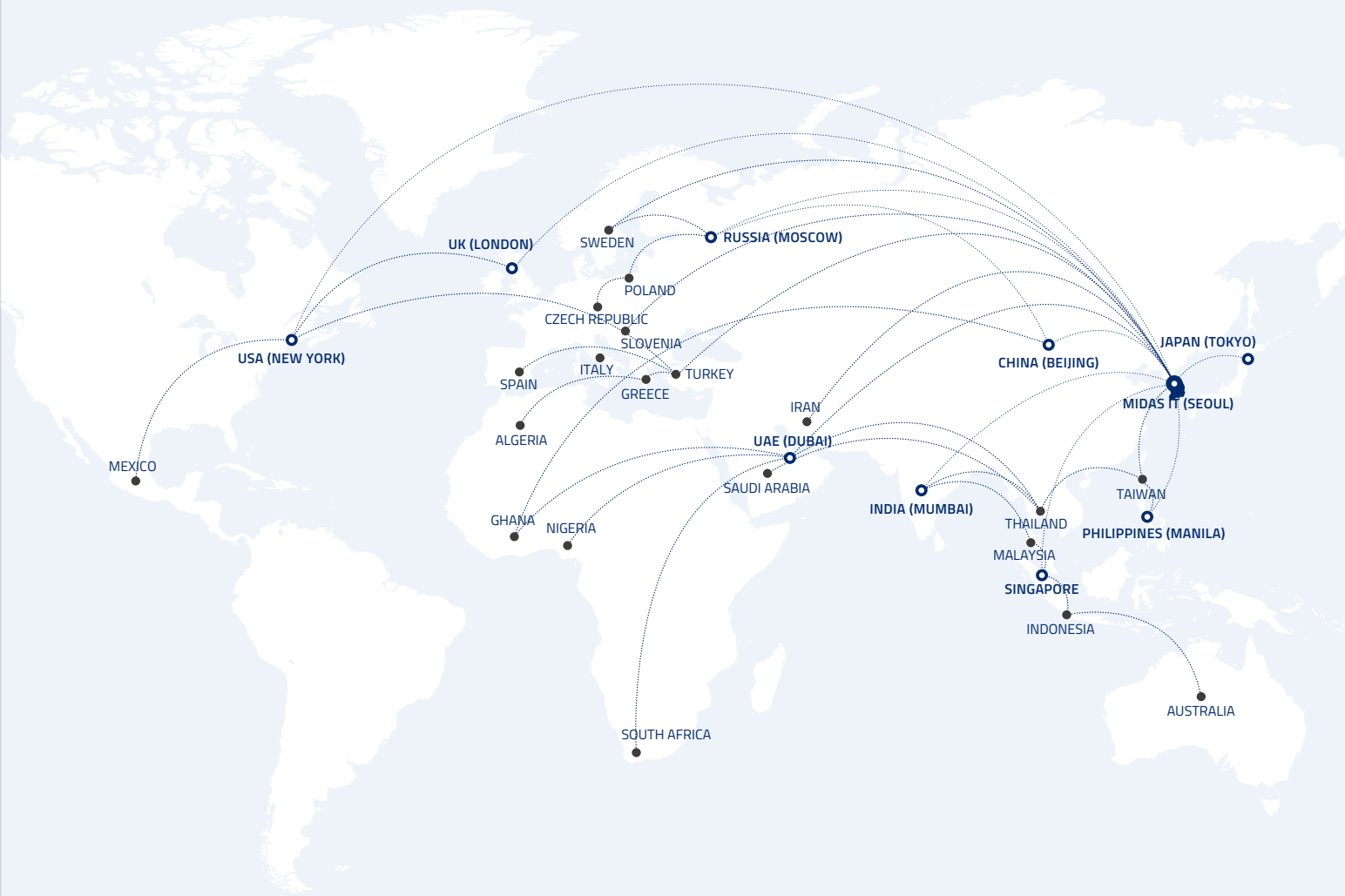
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