

# Table of Contents

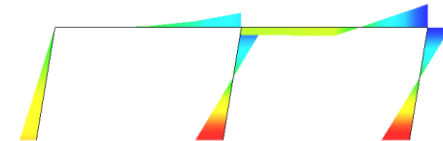
## **LS-1. Plate with a Hole**

*- 2D Linear Static Analysis*



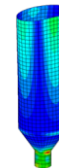
## **LS-2. Plane Frame**

*- 2D Linear Static Analysis*



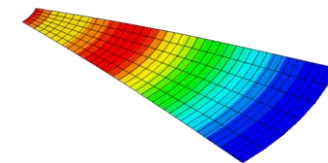
## **LS-3. Silo**

*- 3D Linear Static Analysis*



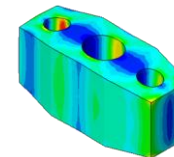
## **LS-4. Tapered Plate**

*- 3D Linear Static Analysis*



## **LS-5. Solid Block**

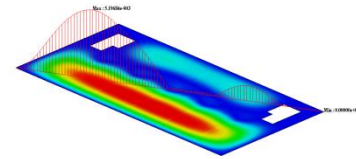
*- 3D Linear Static Analysis*



# Table of Contents

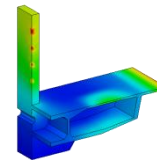
## **LS-6. Concrete Floor**

*- 3D Linear Static Analysis*



## **LS-7. Pier Table**

*- 3D Linear Static Analysis*



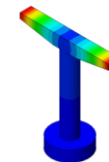
## **LS-8. Pier - AutoMesh**

*- 3D Linear Static Analysis*



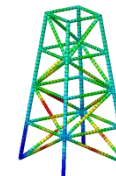
## **LS-9. Pier - MapMesh**

*- 3D Linear Static Analysis*



## **LS-10. Analysis of a Frame Tower**

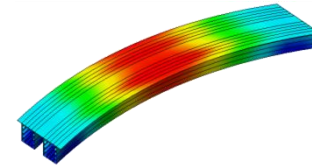
*- 3D Linear Static Analysis*



# Table of Contents

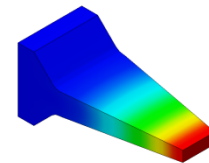
## **LS-11. Steel Box Bridge**

*- 3D Linear Static Analysis*



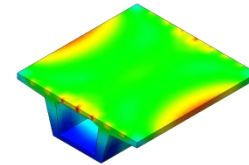
## **LS-12. Solid Block**

*- 3D Linear Static Analysis*



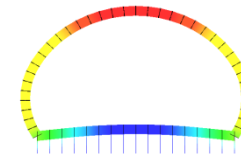
## **LS-13. Analysis of a Box Girder**

*- 3D Linear Static Analysis*



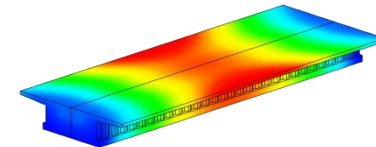
## **LS-14. 2D Tunnel Lining**

*- 2D Linear Static Analysis*



## **LS-15. Corrugated Steel-Web Bridge**

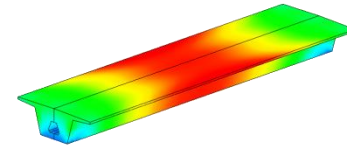
*- 3D Linear Static Analysis*



# Table of Contents

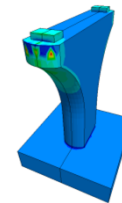
## **LS-16. FSM Bridge**

*- 3D Linear Static Analysis*



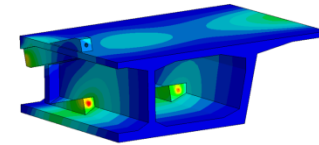
## **LS-17. Pier with Tendon**

*- 3D Linear Static Analysis*



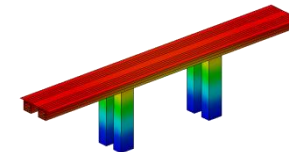
## **LS-18. PSC Anchorage**

*- 3D Linear Static Analysis*



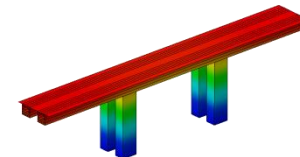
## **TH-1. Analysis of a Steel Box Bridge**

*- 3D Time History Analysis*



## **RS-1. Analysis of a Steel Box Bridge**

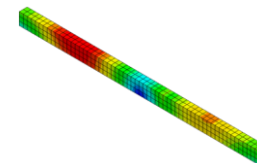
*- 3D Response Spectrum Analysis*



# Table of Contents

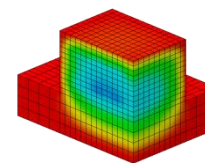
## **CS-1. PSC Beam**

*- 3D Construction Stage Analysis*



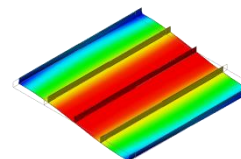
## **HA-1. Hydration - Pipe Cooling**

*- 3D Heat of Hydration Analysis*



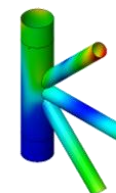
## **MA-1. Modal Analysis of a Stiffened Plate**

*- 3D Eigenvalue Analysis*



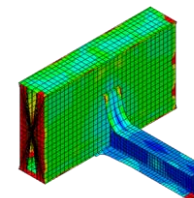
## **BK-1. Buckling Pipe**

*- 3D Linear Buckling Analysis*



## **FA-1. Fatigue Analysis of a Box Girder**

*- 3D Linear Fatigue Analysis*



# Table of Contents

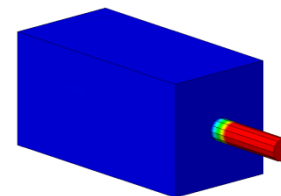
## **NL-1. Embedded bar – 2D**

*- An embedded bar in a concrete block*



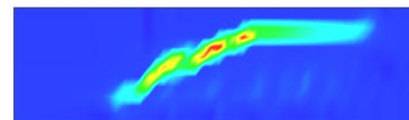
## **NL-2. Embedded bar – 3D**

*- An embedded bar in a concrete block*



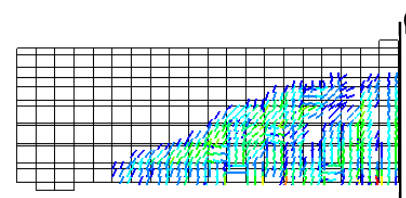
## **NL-3. Shear Crack Failure (Leonhardt 1980)**

*- Shear Crack Failure in an RC beam*



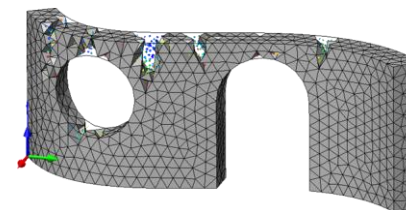
## **NL-4. Shear Crack Failure (Podgorniak-Stanik 1998 )**

*- Shear Crack Failure in an RC beam*



## **NL-5. Crack analysis for a curved wall**

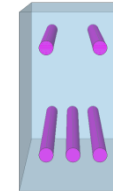
*- Crack failure analysis for a curved wall*



# Table of Contents

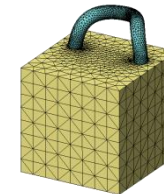
## **TP-1. An RC Beam with Interface Elements**

*- Defining an interface element in an RC beam*



## **TP-2. Embedded steel handle in a concrete block**

*- Defining a handle in a concrete block*



## **TP-3. Curved concrete box girder with compressive struts**

*- Modeling a curved concrete box girder*

