AxisVM Report Generation Example

Inter-CAD Kft.

August 10, 2022

Contents

1   Model Information

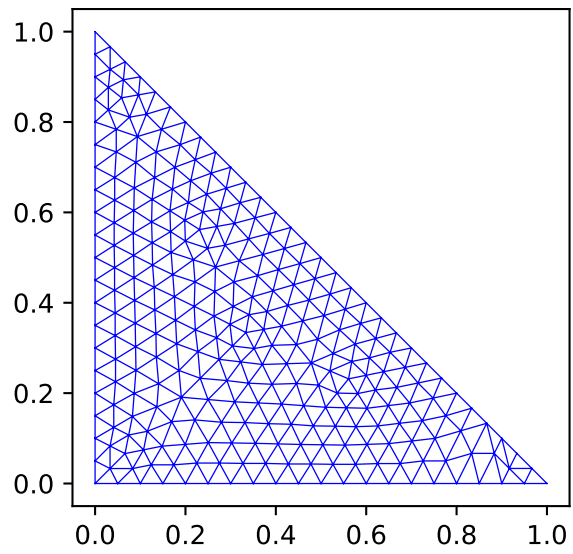| N Node	280
N Line	682
N Surface	404
N Member	6
N Domain	4

1.1   Domains

Figure 1: Domain 1

2 Results

2.1 ULS

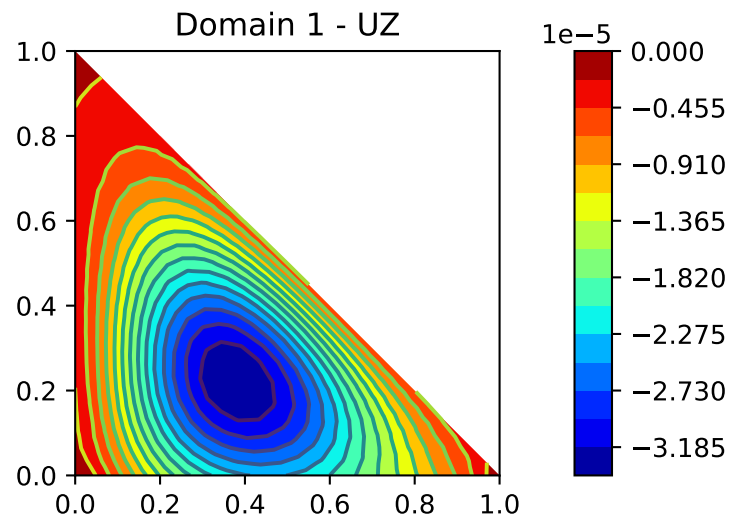### 2.1.1 Degree of freedom solution of a domain for a single load case.

Figure 2: Degree of Freedom Solution for Domain 1

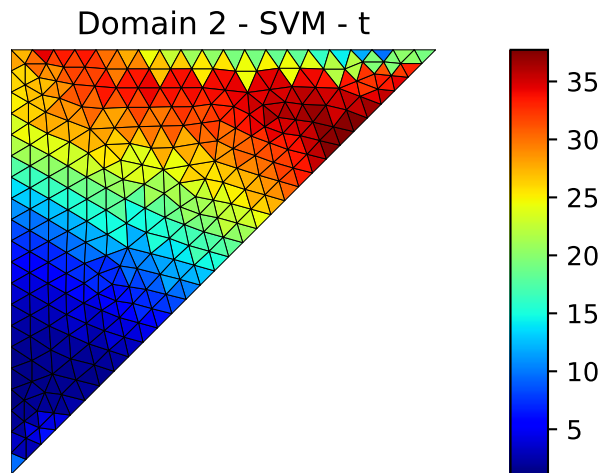### 2.1.2 Von-Mises stress distribution of a domain for a single load case.

Figure 3: Von Mises Stresses for Domain 1

3 XLAM

3.1 Stresses

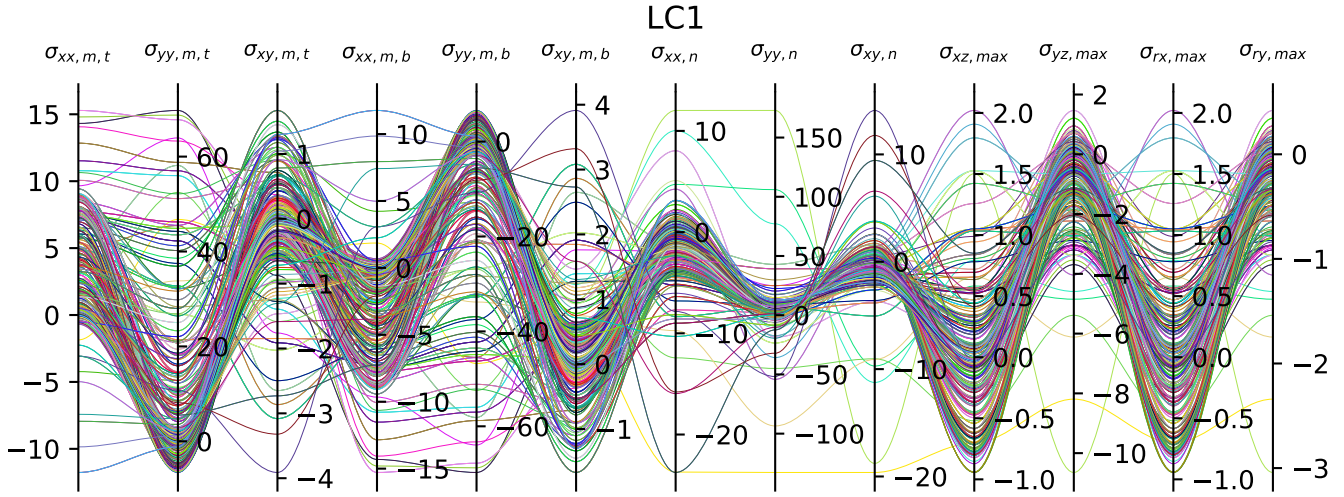Stresses of a domain for a single load case

Figure 4: Parallel coordinates plot about the stresses of all the points of a domain.

3.2 Critical combinations

Critical combinations for a single node of a domain Ciritcal combination for Node 161 of Surface 347 of Domain 4
$1.5 \cdot LC1 + 1.05 \cdot LC3 + 1.05 \cdot LC4$
Critical combinations for a domain Ciritcal combination for Domain 4
$1.05 \cdot LC1 + 1.05 \cdot LC2 + 1.5 \cdot LC3 + 1.05 \cdot LC4$
Critical combinations for all domains
The combination resulting the highest maximum efficiency is

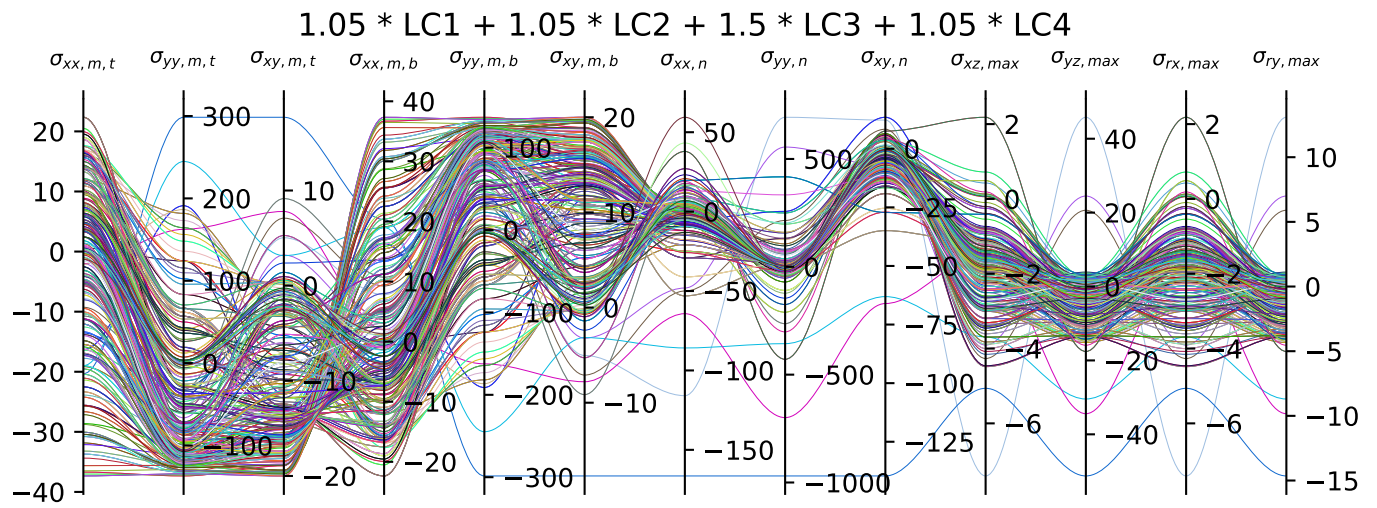$$1.05 \cdot LC1 \; + \; 1.05 \cdot LC2 \; + \; 1.5 \cdot LC3 \; + \; 1.05 \cdot LC4 \qquad (1)$$

Surface stresses:

Figure 5: Stresses of a domain.

Efficiancies: