

Your Title Here

Your Name

Date

## 1 Introduction

PUT CONTENT HERE; PERHAPS CITE SOMETHING [2]

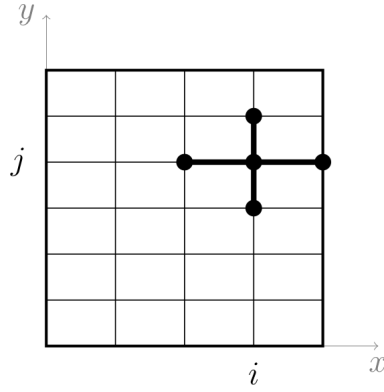


Figure 1: If there is no image above then that is because `stencil.png` is not on the path.

## 2 Continuum Model [or Continuum Problem]

PUT CONTENT HERE; PERHAPS CITE SOMETHING [4]

## 3 Numerical Scheme(s)

PUT CONTENT HERE; PERHAPS CITE SOMETHING [3]; REFER TO FIGURES BY LABELS, such as Figure 2.

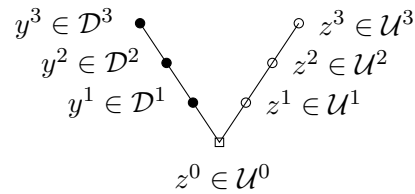


Figure 2: Some numerical schemes use things called *V*-cycles [1].

```
% MYCODE This is my matlab implementation
x = 1:10;
y = randn(size(x));
plot(x,y)
z = 2+2
```

---

MORE CONTENT

---

```
>> mycode           % here I am running the code
z = 4
```

---

## 4 Analysis

PUT CONTENT HERE

## 5 Results

PUT CONTENT HERE

## References

- [1] E. Bueler (2021). *PETSc for Partial Differential Equations: Numerical Solutions in C and Python*, SIAM Press.
- [2] A. Einstein (1905). *Zur Elektrodynamik bewegter Körper*, Annalen der Physik, 322 (10), 891–921.
- [3] R. LeVeque (2007). *Finite Difference Methods for Ordinary and Partial Differential Equations*, SIAM Press.
- [4] J. Ockendon, S. Howison, A. Lacey, & A. Movchan (2003). *Applied Partial Differential Equations*, Revised ed., Oxford University Press.

## A Appendix

PUT SUITABLE CONTENT HERE IF DESIRED