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21–24 September 2027, Graz, Austria

Title of Your Paper in Title Case (Maximum 2 Lines, About 15 Words)

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Abstract. Write the abstract here. Maximum 250 words (keywords: maximum 6). State the problem, the method, the main result and the main conclusion. *Questions about this template? Write an email to numge2027@tugraz.at.*

Keywords: numerical methods, geotechnical engineering, keyword three

1 Introduction

State the problem and the aim of the paper. Please follow these rules:

- Maximum 8 pages, including the references.
- Write in British English.
- Do not anonymise the paper. Do not change the layout or add an appendix.
- Check these limits yourself: maximum 8 pages, 250 words in the abstract, 6 keywords and 2 lines in the title.
- The section names Introduction, Background, Method, Results, Discussion and Conclusion are recommendations. We recommend that you use them.
- Questions: numge2027@tugraz.at.

2 Background

Give the theory and earlier work. Cite sources as Schanz et al. (1999) or as (Schanz et al., 1999). Use (Chen and Guestrin, 2016; Sudret, 2008) for several sources. Number equations consecutively, as shown in Eq. (1):

$$q = \sigma_1 - \sigma_3. \tag{1}$$

3 Method

Describe the model, the data and the procedure.

3.1 Figures

- Two fixed widths: one column (8.7 cm) or two columns (18.0 cm). Save the figure at exactly this width.
- At least 300 dpi, or a vector format. Use 7–8 pt fonts.
- Use PNG, JPG or PDF. Put all files in the main folder, with no subfolders and no spaces in the names.
- One-column figures stay where you type them. Two-column figures go to the top of a page.
- Do not type the full stop at the end of a caption. The class adds it.

Each figure, table and equation gets a short name of your choice in its last braces, for example `fig:test`. To refer to it in the text, write `\autoref{fig:test}`. LaTeX replaces this with the right number, for example “Fig. 3”. Use a different name for each item. Use letters, numbers and a colon, without spaces. Write the name the same way in both places:

```
% file: template_figure_1col.png (write no .png)
% last braces = name, used as \autoref{fig:one}
\onecolfig{template_figure_1col}{Caption}{fig:one}
```

Template figure: width 8.7 cm (fixed)

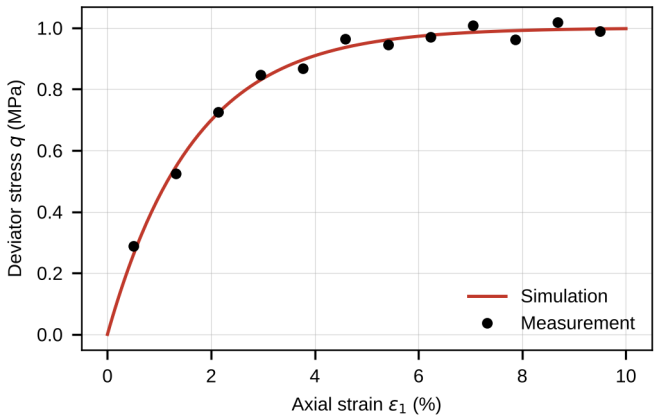


Fig. 1: One-column figure, 8.7 cm wide. Replace this file.

```
% two columns (18.0 cm wide)
\twocolfig{template_figure_2col}{Caption}{fig:two}
```

3.2 Tables

- One column (8.7 cm). The caption is placed above the table.
- The class counts the columns from the header row and adds all lines.
- All cells are centred.

Copy this environment:

```
% last braces = name, used as \autoref{tab:ex}
\begin{onecoltable}{Caption}{tab:ex}
  \tablehead{Parameter & Unit & Value}
  $E_{50}$ & MPa & 30\\
  $\varphi'$ & $^\circ$ & 32\\
\end{onecoltable}
```

3.3 Equations, units and lists

- Write units as plain text after a space: 30 MPa, 18 kN/m^3, 32°.
- Write variables in italics, inside dollar signs: `$E_{50}$`. Define each symbol at first use.
- Use `numequation` for every equation. Write only the equation. A long equation breaks into lines automatically.
- Use `bulletlist` for bullet points and `numberedlist` for numbered points. Write `\item` before each point.

```
% braces = name, used as \autoref{eq:ex}
\begin{numequation}{eq:ex}
  q = \sigma_1 - \sigma_3
```


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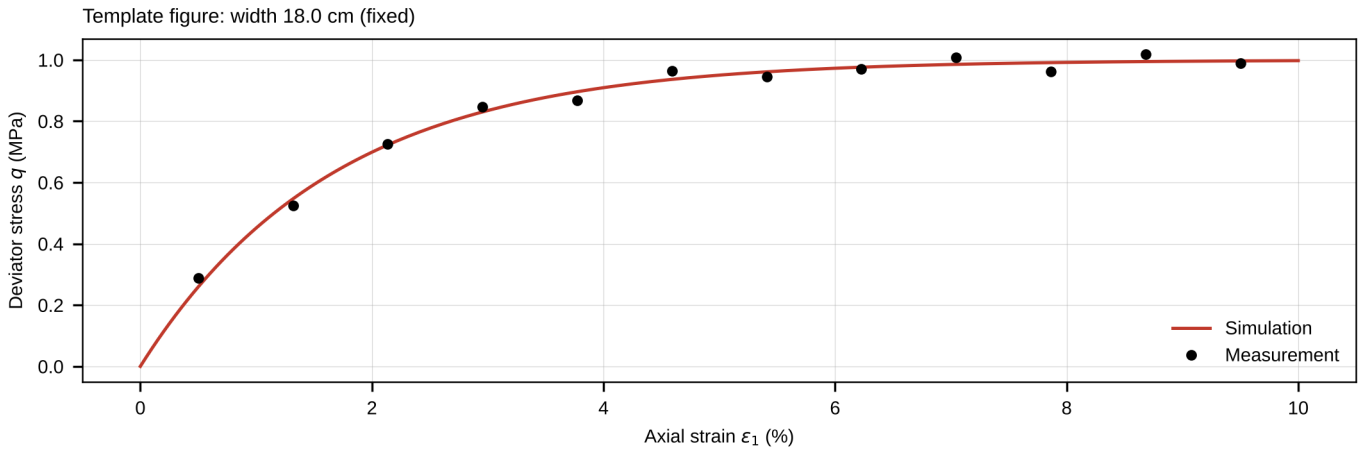


Fig. 2: Two-column figure, 18.0 cm wide. Replace this file.

```
\end{numequation}

\begin{bulletlist}
  \item First point, with a reference
  ↪  \citep{schanz1999}.
  \item Second point, see \autoref{fig:one}.
\end{bulletlist}

\begin{numberedlist}
  \item First step.
  \item Second step.
\end{numberedlist}
```

The PDF shows:

- First point, with a reference (Schanz et al., 1999).
- Second point, see Fig. 1.

1. First step.
2. Second step.

3.4 References

- Write every reference in `references.bib`. Copy the example of the same type and replace the text. In the text, write `\citet{key}` for Schanz et al. (1999) or `\citep{key}` for (Schanz et al., 1999).
- The file has examples for a journal paper (Sudret, 2008), a conference paper (Schanz et al., 1999), a book (Potts and Zdravković, 1999), a book chapter (Mustermann and Musterfrau, 2020), a thesis (Mustermann, 2019), a report (Mustermann, 2021), a standard (CEN, 2004) and a web page (Python Software Foundation, 2024).
- Cite every entry in the text.

3.5 Headings

- Use three levels: `\section`, `\subsection` and `\subsubsection`. The numbers are 1, 1.1 and 1.1.1.
- The class sets the numbers, the fonts and the spaces. Do not type a number and do not add a fourth level.
- To refer to a heading, add `\label{sec:name}` and write `\autoref{sec:name}`.

3.5.1 Third-level headings

Use a third-level heading only to split a subsection into parts. This heading is an example: the PDF shows it as 3.5.1 in bold italic type. Write the title in sentence case, without a full stop:

```
\subsection{Headings}

\subsubsection{Third-level
↪  headings}\label{sec:third}
```

4 Results

Present the results. Always refer to figures, tables, equations and sections with `\autoref{name}`. Do not type “Figure” or “Table” by hand. Example:

```
The test is shown in \autoref{fig:one}.
The input is given in \autoref{tab:ex}.
The result follows from \autoref{eq:ex}
(see \autoref{sec:method}).
```

The PDF shows: The test is shown in Fig. 1. The input is given in Tab. 1. The result follows from Eq. (1) (see Sect. 3).

Tab. 1: Example table. Table captions go above the table.

Parameter	Unit	Value
E_{50}^{ref}	MPa	30
φ'	°	32

5 Discussion

Interpret the results. Compare them with earlier work and name the limits.

6 Conclusion

Give the main findings in a few sentences.

6.1 Submission

Use Overleaf to write your paper. We recommend it. You submit the paper in ConfTool. Upload two files there:

1. The source as one zip file. In Overleaf, click Menu, then Download, then Source.
2. The PDF. In Overleaf, click Menu, then Download, then PDF.

Check these points before you upload in ConfTool:

- Put all files in the main folder of the zip. Do not use subfolders. This includes the figures.
- The zip contains the `.tex`, `.cls` and `.bib` files, all figures and all logos.

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- The PDF has a maximum of 8 pages and shows no red warning.

Data availability

State where the data and code are available, for example a repository with a DOI. Remove this section if it does not apply.

Acknowledgements

Thank funding bodies and colleagues. Remove this section if it does not apply.

References

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