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THE TITLE SHOULD BE NO MORE THAN 20 WORDS, AND ACCURATELY DESCRIBE THE CONTENT (14PT BOLD)

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Abstract
Write a single-paragraph abstract in English of no more than 250 words. The abstract must state (1) the background or importance of the research (optional), (2) the objective of the study, (3) a brief description of the method, (4) the main results (not discussion), and (5) a brief conclusion. Do not include references, figures, tables, equations, or undefined abbreviations. Review articles, case studies, and short communications may use an unstructured abstract that conveys the essence of the paper. (use the `abstract` *environment)*

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Biodiesel B40 and B50; Crude Palm Oil (CPO); Energy Security; Government Policy; Indonesia.

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1. Introduction (use `\section`)

The introduction must contain the following: (a) a state-of-the-art overview of relevant previous research, supported mainly by recent primary references; (b) a clear statement of the research gap and the novelty or contribution of this work, justified by that overview; and (c) the objective(s) of the research, stated explicitly at the end of the section. Cite sources with numbers in square brackets, e.g., [1] or [2]–[4]. (Main text paragraphs need no command: just leave a blank line between paragraphs. Cite several sources in one command, `\cite{a,b,c}`; consecutive numbers are compressed to a range automatically.)

2. Method

Describe the research design, materials, data sources, equipment, experimental or computational procedures, and analysis methods in enough detail for the work to be reproduced. State software versions, key parameters, and statistical tests where relevant. Studies involving human participants or animals must report their ethical clearance in the Ethics Statement.

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Table 1. Word styles of the JESCEE template and their LaTeX equivalents

Word style	LaTeX command / environment
JESCEE Title, Authors, Affiliation	`\title`, `\author[1]{}`, `\affiliation[1]{}`, `\maketitle`
JESCEE Abstract, Keywords, History	`abstract` environment, `\keywords`, `\received`, …
JESCEE Heading 1 / 2 / 3	`\section`, `\subsection`, `\subsubsection`
JESCEE Main Paragraph	plain text (blank line between paragraphs)
JESCEE List Bullet	`itemize` / `enumerate`
JESCEE Table / Figure Caption	`\caption` inside `table` / `figure`
JESCEE Table footnote	`\tablemark{a}` and `\tablenote{}`
JESCEE Ref	`\bibliographystyle{jescee}`, `\bibliography{}`

2.2. Equations and Mathematical Notation

Number every displayed equation consecutively with Arabic numerals in parentheses, flush right, and refer to it in the text as Equation (1) or "Equations (1)–(4)". Use the `equation` environment for single equations and `align` for multi-line derivations; punctuate equations as part of the sentence. Write scalar variables in italic (x, t), vectors in bold italic (`\vect{x}` $\rightarrow \boldsymbol{x}$), matrices in bold upright (`\mat{A}` $\rightarrow \mathbf{A}$), and functions, operators, constants and units in upright type (sin, exp, e, kW). Define every symbol at its first appearance. For example, a linear time-invariant system

$$\dot{\boldsymbol{x}}(t) = \mathbf{A}\boldsymbol{x}(t) + \mathbf{B}\boldsymbol{u}(t), \qquad \boldsymbol{x}(0) = \boldsymbol{x}_0, \tag{1}$$

where $\boldsymbol{x} \in \mathbb{R}^n$ is the state and $\boldsymbol{u} \in \mathbb{R}^m$ the input, is regulated by minimising the quadratic cost

$$J = \int_0^\infty \left(\boldsymbol{x}^{\mathsf{T}}\mathbf{Q}\boldsymbol{x} + \boldsymbol{u}^{\mathsf{T}}\mathbf{R}\boldsymbol{u}\right) \mathrm{d}t, \qquad \mathbf{Q} = \mathbf{Q}^{\mathsf{T}} \succeq 0,\ \mathbf{R} = \mathbf{R}^{\mathsf{T}} \succ 0. \tag{2}$$

The optimal control is $\boldsymbol{u} = -\mathbf{K}\boldsymbol{x}$, with $\mathbf{P}$ the unique stabilising solution of the algebraic Riccati equation:

$$\mathbf{A}^{\mathsf{T}}\mathbf{P} + \mathbf{P}\mathbf{A} - \mathbf{P}\mathbf{B}\mathbf{R}^{-1}\mathbf{B}^{\mathsf{T}}\mathbf{P} + \mathbf{Q} = \mathbf{0}, \tag{3}$$

$$\mathbf{K} = \mathbf{R}^{-1}\mathbf{B}^{\mathsf{T}}\mathbf{P}. \tag{4}$$

Theorem-like statements are typeset with the environments `theorem`, `lemma`, `proposition`, `corollary`, `definition`, `assumption`, `example`, `remark` and `proof`.

Definition 1. The system (1) with $\boldsymbol{u} = \mathbf{0}$ is *asymptotically stable* if $\|\boldsymbol{x}(t)\| \to 0$ as $t \to \infty$ for every $\boldsymbol{x}_0 \in \mathbb{R}^n$.

Theorem 1 (Lyapunov)**.** *The matrix* $\mathbf{A}$ *is Hurwitz if and only if, for every* $\mathbf{Q} \succ 0$*, the Lyapunov equation* $\mathbf{A}^{\mathsf{T}}\mathbf{P} + \mathbf{P}\mathbf{A} = -\mathbf{Q}$ *has a unique solution* $\mathbf{P} \succ 0$*.*

Proof. If $\mathbf{A}$ is Hurwitz, $\mathbf{P} = \int_0^\infty \mathrm{e}^{\mathbf{A}^{\mathsf{T}}t}\mathbf{Q}\mathrm{e}^{\mathbf{A}t}\,\mathrm{d}t$ converges, is positive definite and satisfies the equation. Conversely, $V(\boldsymbol{x}) = \boldsymbol{x}^{\mathsf{T}}\mathbf{P}\boldsymbol{x}$ gives $\dot{V} = -\boldsymbol{x}^{\mathsf{T}}\mathbf{Q}\boldsymbol{x} < 0$ for $\boldsymbol{x} \neq \mathbf{0}$, so the origin is asymptotically stable in the sense of Definition 1. ∎

Procedures may be given as pseudo-code with the `algorithm` environment, as in Algorithm 1.

2.3. Units and Numbers

Use SI units with the `siunitx` package, e.g., 2 963 MW, 50 Hz, 650 V, 1.5 mF or 20 °C to 25 °C. Leave a thin space between a number and its unit and use a decimal point, not a comma.

3. Result and Discussion

Present the main findings, supported by tables and figures that are cited and explained in the text. Interpret the results, relate them to the underlying theory or concepts, and critically compare them with relevant recent studies to

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Algorithm 1 LQR design and closed-loop eigenvalue check

Require: system matrices $\mathbf{A}, \mathbf{B}$; weights $\mathbf{Q} \succeq 0$, $\mathbf{R} \succ 0$
Ensure: optimal gain $\mathbf{K}$ and closed-loop eigenvalues λ_i
Solve (3) for $\mathbf{P} = \mathbf{P}^{\mathsf{T}} \succ 0$
$\mathbf{K} \leftarrow \mathbf{R}^{-1}\mathbf{B}^{\mathsf{T}}\mathbf{P}$ ▷ Equation (4)
for $i = 1, \ldots, n$ **do**
    $\lambda_i \leftarrow \mathrm{eig}_i(\mathbf{A} - \mathbf{B}\mathbf{K}), \quad \zeta_i \leftarrow -\mathrm{Re}\,\lambda_i / |\lambda_i|$
end for
return $\mathbf{K}$, $\{\lambda_i, \zeta_i\}$

show whether they confirm, extend, or contradict previous findings. Discuss the limitations of the study.

((**Note:** Please do **not** put tables inside a `minipage`, frame or box; use the `table` environment.))

3.1. Tables and Figure

We suggest that you insert your image files as vector PDF/EPS, or as raster images (PNG/JPG/TIFF) of at least 300 dpi with all fonts embedded, and that tables are typed in LaTeX rather than pasted as images. Every table and figure must be cited in the text, e.g., Table 2 and Figure 1. Table captions are placed above the table and figure captions below the figure.

Table 2. Example of a Table Caption (use `\caption` above the table)

Table Head	Table Column Head		
	Table column subhead	Subhead	Subhead
copy	More table copy[a]		

[a]Sample of a Table footnote. (use `\tablenote`)

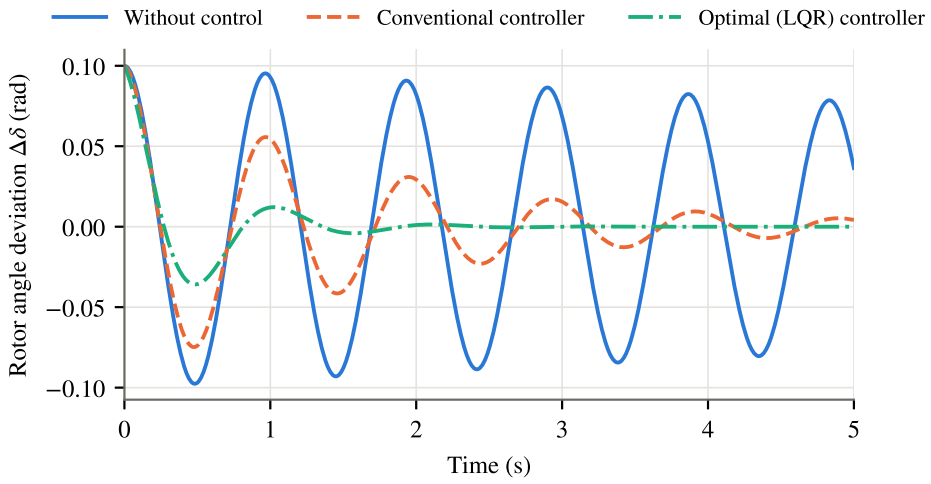

Figure 1. Example of a figure: rotor angle deviation for three control cases (use `\caption` below the figure)

(Insert figures with `\includegraphics`. Note: Please do not combine figure and caption in a text box or frame. Sub-figures: use the `subfigure` environment.)

Main Text Paragraph.

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4. Conclusion

The conclusion must answer the research objective(s) and emphasize the new or important findings (e.g., a model, method, prototype, or insight), supported by the results. Do not repeat the discussion, present new data, or cite references in this section. Suggestions for future research or practical implications may be added.

Declarations

(All statements below are mandatory. Write "Not applicable" where a statement does not apply. Do not delete the headings. The class warns if one is missing.)

Author Contributions. Describe the contribution of each author using the CRediT taxonomy, for example: First Author: Conceptualization, Methodology, Writing – Original Draft; Second Author: Investigation, Formal Analysis, Data Curation; Third Author: Supervision, Writing – Review & Editing. All authors have read and approved the final manuscript.

Funding. State the funding source(s) and grant number(s), e.g., "This research was funded by [funder] under grant number [number]." If there was no funding, write: "This research received no external funding."

Conflict of Interest. Disclose any financial or non-financial interests that could be perceived as influencing the work, e.g., "The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper."

Data Availability. State where the data, code, and other materials supporting the findings can be accessed (e.g., repository name and DOI or URL), or explain any restrictions (e.g., confidentiality, personal data protection, or intellectual property), e.g., "The data that support the findings of this study are available from the corresponding author upon reasonable request."

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Acknowledge individuals or institutions that contributed to the research but do not meet the authorship criteria (e.g., technical assistance, access to data or facilities, or language editing). State funding sources in the funding statement above, not here. The preferred spelling of the word "acknowledgment" in America is without an "e" after the "g." Avoid the stilted expression "one of us (R. B. G.) thanks . . . ". Instead, try "R. B. G. thanks . . . ".

References

Each article must cite at least 15 references. All references must be in English, not Bahasa Indonesia. At least 80% must be primary sources (journal articles, conference proceedings, theses or dissertations, or research monographs), and at least 80% must have been published within the last five years. Every source cited in the text

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- For papers published in translation journals, please give the English citation first, followed by the original foreign-language citation [5].

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