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| Book Name: | **Morden control theory** |
| Manuscript Number: | **Ms\_BP\_8574A.2** |
| Title of the Manuscript: | **Mathematical Description of Linear System** |
| Type of the Article | **Book chapter** |

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| PART 1: Review Comments | | |
|  | Reviewer’s comment | Author’s comment *(If agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. Authors must write his/her feedback here)* |
| Is the manuscript important for the scientific community? Please write a few sentences explaining your answer | The manuscript addresses key challenges, provides innovative solutions, or offers practical implications for real-world problems associated with linear systems, it could hold substantial importance for the scientific community. Ultimately, the significance of the manuscript would be determined by its contributions to expanding knowledge, solving problems, or fostering advancements in relevant disciplines. |  |
| Is the title of the article suitable? Do you have any alternative Title in your mind? | The title "Mathematical Description of Linear System" is informative but might benefit from additional specificity or context to make it more engaging and indicative of the manuscript's focus. Here are a few alternative titles that could capture the essence of the content more vividly:   1. "Advancements in Mathematical Modeling for Linear Systems" 2. "A Comprehensive Analysis of Linear System Mathematics" 3. "In-depth Exploration of Linear System Descriptors" 4. "New Mathematical Frameworks for Linear System Characterization" |  |
| Is the abstract of the article comprehensive? If your answer is No, please provide suggestions | The abstract introduces the focus of the chapter, highlighting the transition from classical control theory to the state space concept for linear systems. It briefly mentions the significance of state space models in capturing both internal system dynamics and input-output behavior, offering a more comprehensive system description. Additionally, it indicates the inclusion of common mathematical models used in modern control systems for readers' understanding.  To make the abstract more comprehensive and engaging, consider expanding on the following points:  **Detailing State Space Concept:** Elaborate on the significance of the state space concept in understanding and modeling system dynamics.  **Clarity and Conciseness:** Ensure that the abstract maintains clarity while remaining concise. Avoid overly technical language that might hinder understanding for readers unfamiliar with the topic. |  |
| Do you think the English quality of the article is suitable for scholarly communications?  If your answer is No, please provide suggestions | The provided excerpt appears to convey technical information but may require refinement for scholarly communications. Here are some suggestions to enhance the English quality for scholarly writing:   **Clarity and Precision:** Ensure sentences are clear, concise, and logically structured. Avoid ambiguous or convoluted phrasing. Use precise terminology relevant to the field without excessive jargon.   **Grammar and Syntax:** Review for grammatical errors, subject-verb agreement, and proper sentence construction. Pay attention to verb tenses, especially when discussing theories or presenting findings. |  |
| Please provide your comments regarding the appropriateness of different sections of the manuscript. | **Modern Control Theory:** This section is highly relevant as it introduces the readers to the contemporary aspects of control theory. **Comparison with Classical Control Theory:** This section would be crucial in providing a foundation by contrasting traditional control methodologies with modern ones. **Basic Conception of State Space:** This section lays the groundwork for understanding the state space representation of systems. **State Vector and State Space:** Explaining the state vector and its relation to the state space representation is fundamental for comprehending state space models. **Common Mathematical Models of Control System:** Presenting various mathematical models commonly used in control systems would be valuable for practitioners and researchers.  Overall, these sections appear highly relevant for a manuscript focused on control theory. However, the comprehensiveness, depth, and clarity of explanations in each section will significantly impact the manuscript's effectiveness in conveying the information to the readers. |  |
| Do you think that the references in the manuscript are proper,recent and sufficient? If you have any suggestions, please write here. | References in the manuscript are proper, recent and sufficient. Ensure that the references cited are recent and relevant to the topic. Depending on the field, recent publications are generally preferred, especially in rapidly evolving areas like technology or science. The references should directly relate to the content discussed. Verify that the sources are from reputable journals, books, or conference proceedings within the specific field. Ensure a balance between classic foundational works and recent advancements. |  |

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| **PART 2:** | | | | |
|  | | | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | | | *(If yes, Kindly please write down the ethical issues here in details)* |  |
| **Reviewer Details:** | | | | |
| Name: | **Ganesh Basawaraj Birajadar** | | | |
| Department, University & Country | **SKNSCOE, India** | | | |