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| Book Name: | **Morden control theory** |
| Manuscript Number: | **Ms\_BP\_8574A.6** |
| Title of the Manuscript: | **State Feedback and State Observer** |
| 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 scientific community should take note of the paper "Modern Control Theory" as it offers comprehensive insights into state feedback, output feedback, and state observer design in control systems. In the subject of control systems and automation, the material is a great resource for academics, engineers, and students since it contains fundamental theoretical underpinnings, real-world applications, and problem-solving exercises. The manuscript's value for the scientific community is further enhanced by the references to particular applications and theorems that show how the principles covered are relevant and applicable in real-world circumstances. |  |
| Is the title of the article suitable? Do you have any alternative Title in your mind? | The title explores sophisticated control theory principles and their real-world applications, the title "Modern Control Theory" is appropriate. The emphasis on current control theory's key elements—state feedback, output feedback, and state observer design—as well as its concentration on control systems are succinctly conveyed by the title. As a result, the title effectively communicates the breadth and importance of the manuscript's substance. |  |
| Is the abstract of the article comprehensive? If your answer is No, please provide suggestions | Unfortunately, there isn't a distinct abstract part in the chapter that was given. Nonetheless, the manuscript's opening page offers an overview of the chapter's subject matter, including its goals and subjects covered. The chapter's content, including state feedback, output feedback, and state observer design, as well as the problem-solving techniques and real-world applications discussed, are thoroughly addressed in this introduction. Therefore, the introduction on the first page offers a thorough synopsis of the chapter's content even if there isn't a distinct abstract part. |  |
| Do you think the English quality of the article is suitable for scholarly communications?  If your answer is No, please provide suggestions | Yes, the English quality is suitable for scholarly communications in control systems and automation. |  |
| Please provide your comments regarding the appropriateness of different sections of the manuscript. | Based on the provided excerpts, the manuscript appears to be well-structured and comprehensive. The sections seem appropriate for addressing advanced topics in control theory, including state feedback and observer design. The content is technical and suitable for scholarly audiences. The inclusion of problem-solving exercises and practical applications enhances the manuscript's relevance. Overall, the sections seem well-suited for in-depth exploration of modern control theory. |  |
| Do you think that the references in the manuscript are proper,recent and sufficient? If you have any suggestions, please write here. | The references seem proper and recent, but their sufficiency cannot be fully assessed without access to the complete list. |  |

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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: | **Varaha Narasimha Raja Chilukoti** | | | |
| Department, University & Country | **Anil Neerukonda Institute of Technology & Sciences (A), India** | | | |