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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 | In general, research papers on topics related to control systems, state feedback, and state observers can be important for the scientific community, particularly in fields like control theory and engineering.State feedback and state observer techniques are fundamental concepts in control systems engineering. They play a crucial role in designing and implementing control systems for various applications, including robotics, aerospace, and industrial automation. If the manuscript presents novel insights, methodologies, or applications in these areas, it could contribute valuable knowledge to the scientific community. |  |
| Is the title of the article suitable?Do you have any alternative Title in your mind? | Yes the title is suitable |  |
| Is the abstract of the article comprehensive?If your answer is No, please provide suggestions | Yes, it is well written |  |
| Do you think the English quality of the article is suitable for scholarly communications?If your answer is No, please provide suggestions | There are grammatically many mistakes making the chapter difficult to understand.1. Page 27, “then a lot of design methods are been provided”
2. PaGE 28,” For single input system in equation(6.61), we can get state feedback gain matrix Ks accords with the following ”
3. Page 52,” Step1, state expression is transformed into another special form which part outputs in system outputs are system states”
4. Page 59,” Hence we can gain the following expression”

and many more. |  |
| Please provide your comments regarding the appropriatenessof different sections of the manuscript. | Here are the section wise comments1. Some practical/industrial problems could be added in the examples.
2. The block diagram above equation 6.179 could be refined more.
3. In the block diagram above equation 6.179, there is no refection of the y-/hat y
4. Throughout the chapter the authors have not mentioned about the initial states at all.The concept of initial states are of utmost importance when we write the state space equation in all places.
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| Do you think that the references in the manuscript are proper, recent and sufficient?If you have any suggestions, please write here. | References are proper but new literatures could be added. |  |

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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: | **L. Susana Ramya** |
| Department, University & Country | **KGiSL Institute of Engineeering and Technology, India** |