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| Book Name: | **Morden control theory** |
| Manuscript Number: | **Ms\_BP\_8574A.5** |
| Title of the Manuscript: | **Controllability and Observability for 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 chapter is on ‘Controllability and Observability for Linear System’, which is taught or more suitable at undergraduate level students or learners. It is one of vital content and delves into fundamental concepts within modern control system.  These two key notions play a pivotal role in understanding and designing control systems. The chapter aims to provide a comprehensive exploration of controllability and observability for linear systems, offering insights into their judgment criteria, structural decomposition, and the minimal realization of transfer function matrices.  The author should introduce about ‘Grammian Matrix’ also – Controllability grammian and Observability grammian. |  |
| Is the title of the article suitable? Do you have any alternative Title in your mind? | Yes, the title of the article is suitable. |  |
| Is the abstract of the article comprehensive? If your answer is No, please provide suggestions | NO.  The abstract or introductory part may be bit more comprehensive. Also, it is advised to modify or reframe the 1st and 4th Objective sentences. |  |
| Do you think the English quality of the article is suitable for scholarly communications?  If your answer is No, please provide suggestions | NO.  There are few grammatical errors and typos in the article.   1. On page number 1 of pdf (or 213), corrections are highlighted and striked through in the pdf. 2. On page 2 (0r 214), the vector may be written in **bold** 3. The sentence formation need to improved at many places on page 3 & 4. 4. It is found that use of words “That’s to say….” Is more. So, try to avoid the speaking language in the text. 5. Other corrections are done in the Article itself. 6. Please elaborate how the Equation 5.16 is derived? |  |
| Please provide your comments regarding the appropriateness of different sections of the manuscript. | 1. Sections should be given proper numbering. (5.1.2, repeated) 2. Figure citation should be uniform throughout. (Figure 5.1 etc.) 3. Font style and Font size used is different at some places in different section. |  |
| Do you think that the references in the manuscript are proper,recent and sufficient? If you have any suggestions, please write here. | Yes.  Authors may add few more recent references. In the current article recent refernce is 2012. Also, couple of standard references can be included. |  |

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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: | **Rajanikant A. Metri** | | | |
| Department, University & Country | **Rajarambapu Institute of Technology, India** | | | |