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| Book Name: | **Advancements in Science and Technology: Paving the Way to a Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_4465.10** |
| Title of the Manuscript:  | **An interplay between Commutative Rings and Graph Theory: A Review** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback*(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimumof 3-4 sentences may be required for this part.** | The paper summarizes previous works. It lacks critical evaluation.A comparative discussion of different viewpoints and potential gaps in existing research would strengthen the paper.  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | A Comprehensive Review of the Interplay Between Commutative Rings and Graph Theory.This can be suitable. |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | A discussion on how different studies compare, their limitations, and open problems would strengthen the review. |  |
| **Is the manuscript scientifically, correct? Please write here.** | If the paper aims to be a literature review, it should outline the criteria for selecting the reviewed studies, their relevance, and any limitations in existing research. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The latest research, especially recent advancements in algebraic graph theory can be included |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/Generalcomments | Discussion or synthesis of the existing literature can be added. Instead of summarizing the literature, the conclusion should highlight open problems, research gaps, and potential directions for future studies. |  |

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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)* |  |

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| **Reviewer Details:** |
| Name: | **K.Lalithambigai** |
| Department, University & Country | **Sri Kaliswari College, India** |