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| Book Name: | [**Physical Science: New Insights and Developments**](https://bookstore.bookpi.org/product/physical-science-new-insights-and-developments-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5931** |
| Title of the Manuscript: | **Atmospheric Monitoring Operations and applications** |
| 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 minimum of 3-4 sentences may be required for this part.** | **This manuscript provides an overview of key concepts in atmospheric science, orbital mechanics and space operations. It is particularly useful for early-career researchers or post-graduate students seeking fundamental knowledge on topics such as microgravity, atmospheric layers, spacecraft operations and interplanetary trajectories. The compilation of practical and theoretical knowledge in a single manuscript reinforces its usefulness for educational purposes. In addition, coverage of historical missions and engineering concepts offers an interdisciplinary perspective.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title is generally appropriate, but a clearer, more academic version would be preferable:**  **Suggested title: "Atmospheric monitoring and orbital applications: An overview of spaceflight operations”** |  |
| 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. | **The abstract is poorly structured and unclear. It is currently an unstructured collection of facts. I recommend rewriting the abstract with a clear organization: one sentence for background, one for objectives, one summarizing the key topics covered (e.g., microgravity, orbit transfer, ... etc), and one emphasizing the importance of the manuscript.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript covers scientifically valid concepts and contains precise explanations of physical principles. However, it resembles a course transcript or educational note more than a peer-reviewed academic chapter. Some sections lack depth or critical references (e.g., discussions of orbital transfer and spacecraft dynamics).** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references cited are credible, but they are few in number and mostly outdated, with a few exceptions (e.g. Emirates Mars Mission). The addition of more recent references, especially from 2020 onwards, would strengthen the credibility and relevance of the manuscript.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The manuscript suffers from inconsistent grammar, repetitive sentences and informal wording. Many sections should be revised for greater clarity and a more academic tone.** |  |
| Optional/General comments | **The manuscript is too long for a book chapter and should be shortened or better focused.**  **It lacks figures, diagrams or equations that could illustrate key elements of orbital mechanics or spacecraft systems.**  **Repetition of content (e.g., explanation of aerial luminescence or space shuttle operations) should be reduced.**  **Consider separating technical topics into clearer subsections with concise introductions and conclusions.** |  |

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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:**

**Abderrahmane Younes, Algeria**