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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\_6157** |
| Title of the Manuscript: | **Analytic Approximate for the Plasma Sheath Potential** |
| 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 new approximation, like the previous one, allows the direct calculation of the sheath potential as a function of the distance to the wall.**  **The errors of the new approximation and the previous one have been determined for four different values of K. Previous approximations used to fail for values smaller than 1 2 or nearly to 1 2 .**  **The new approximation is also good for any value of K, including K = 12, which is a very important advantage compared with the previous ones.**  **Furthermore, it is also very simple, since it is an exponential as 2, notwithstanding that its accuracy is higher.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **the title of the article 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. | **abstract of the article comprehensive** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **the manuscript scientifically, correct** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The English quality of the article is suitable |  |
| Optional/General comments | non |  |

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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:**

**Mohammed Shareef Mohammed, Iraq**