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RADIATIVE NICKEL CHROMIUM IRON ALLOY (NIMONIC 80A) - KEROSENE NANOFLUID FLOW INDUCED BY AN EXPANDING SHEET WITH SLIP FACTOR: A LIE-GROUP ANALYSIS

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ABSTRACT

In the current review, hydromagnetic convective stream and intensity move of a retaining and electrically leading NIMONIC 80A-kerosene nanofluid over a semi-endless, preferably straightforward, porous extending sheet because of sunlight based radiation is thought of. The stream considered is under both surface and warm slip conditions. The overseeing conditions are changed into a non-direct common differential condition utilizing traditional Untruth bunch approach which are tackled mathematically through the proficient mathematical shooting procedure with fourth request Runge-Kutta plot. The impacts of involved boundaries on the speed and temperature profiles, skin contact and Nusselt number are inspected and talked about through charts and tables. Correlations with recently distributed works are performed, and fantastic understanding between the outcomes is acquired.