A New Differential Formula About Product of Polynomials and Its Application in Multi-electron State Physics

FAN Hong-Yi [1,2]

[1] Department of Physics, Shanghai Jiao Tong University, Shanghai 200030, China
[2] Department of Material Science and Engineering, University of Science and Technology of China, Hefei 230026, China
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Abstract: We derive a new differential formula about a kind of product of polynomials and then apply it to analyze some properties of multi-electron state " related to Laughlin wave function" . The entangled state representation for describing electrons in uniform magnetic field is used.

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