

E-Learning Resources (e-books)

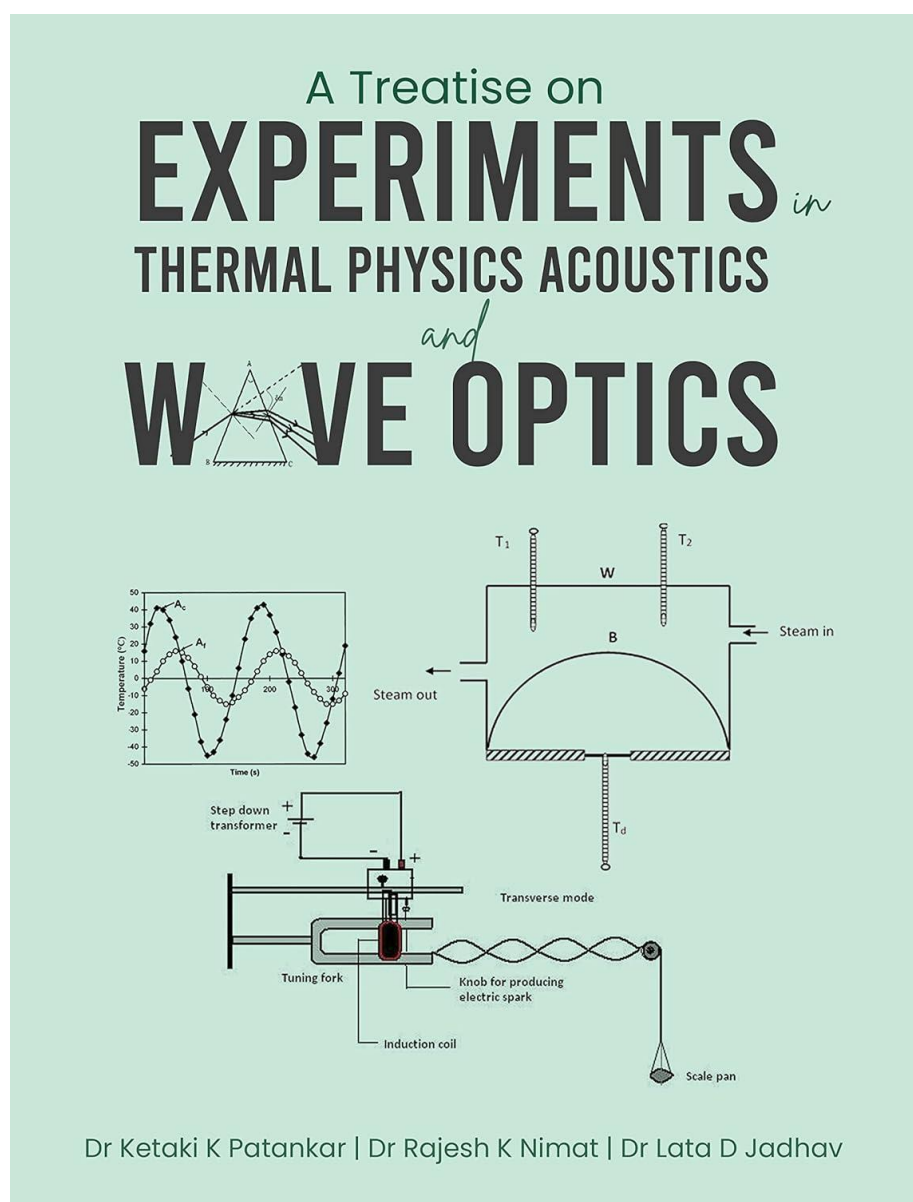
By

Prof. (Dr.) Rajesh K Nimat

1. A Treatise on Experiments in Thermal Physics Acoustics and Wave Optics Paperback
– 7 February 2023

Dr Lata D Jadhav Dr Ketaki K Patankar, Dr Rajesh K Nimat (Author)

Link- <https://www.amazon.in/Treatise-Experiments-Thermal-Physics-Acoustics/dp/9356113300>



2. BiCuVOx Oxide Ion Conductor for SOFC Application by Rajesh Nimat 12 Jun. 2017

Link- <https://www.amazon.nl/-/en/Rajesh-Nimat/dp/333032967X>

This book deals with the literature survey of solid electrolytes with oxygen ion conduction. The properties of $\text{Bi}_2\text{Cu}_0.1\text{V}_0.9\text{O}_{5.35}$ solid electrolyte such as crystal structure, ionic conductivity, thermal expansion coefficient etc. have been discussed. The spray pyrolytic synthesis of $\text{Bi}_2\text{Cu}_0.1\text{V}_0.9\text{O}_{5.35}$ thin films, the effect of spray parameters like substrate temperature, concentration of sprayed solution and quantity of solution on film thickness has been studied and discussed in detail. The structural properties of $\text{Bi}_2\text{Cu}_0.1\text{V}_0.9\text{O}_{5.35}$ thin films deposited by spray pyrolysis on glass and alumina substrates are explained for their suitability as solid electrolyte. The transport properties of $\text{Bi}_2\text{Cu}_0.1\text{V}_0.9\text{O}_{5.35}$ thin films deposited on glass and alumina substrates are also reported. The emphasis is given on the impedance study of spray deposited $\text{Bi}_2\text{Cu}_0.1\text{V}_0.9\text{O}_{5.35}$ thin films.

Oxide Ion Conductor for SOFC Application



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