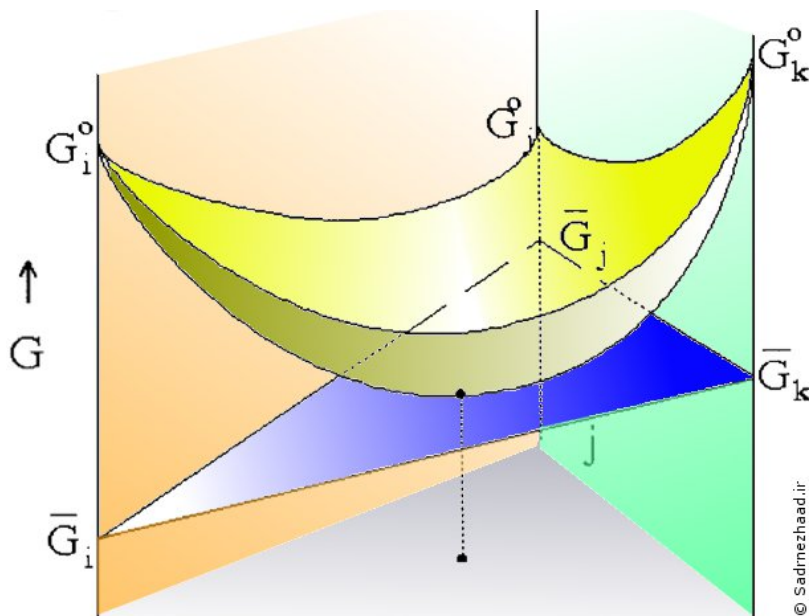


# Thermodynamics and Kinetics of Materials

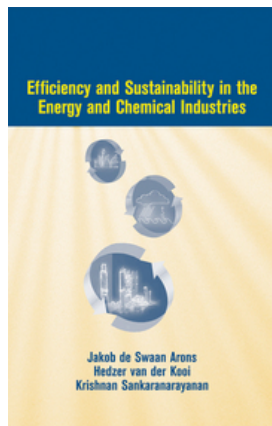
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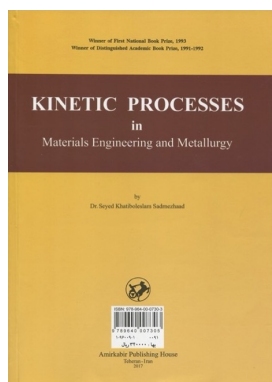
## PhD Course

### Titles:

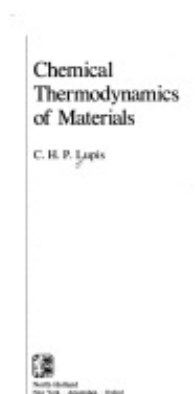
- Thermodynamic Laws and their applications in materials systems
- Solutions and alloys
- One, two and three components phase diagrams
- Mass action Law
- Fick's Laws and their applications
- Kinetic models
- Phase transformations
- Practical examples



J.S. Arons, H. Kooi and K. Sankaranarayanan, "Efficiency and Sustainability in the Energy and Chemical Industries", Elsevier Science Ltd, (2009), ISBN 978-0-444-53333-0



S.K. Sadrnezhad, "Kinetic Processes in Materials Engineering and Metallurgy", 3rd Edition, Amir Kababchi Publishing House, (2009), ISBN 978-964-692-000-0



C.H.P. Lupis, "Chemical Thermodynamics of Materials", Elsevier Science Ltd, (1983), ISBN 978-0-444-01426-0

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