

## Transport Phenomena And Materials Processing Sindo Kou

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transport phenomena to materials processing problems Examples of materials problems include (i) film growth in chemical vapor deposition, (ii) doping in semiconductors, (iii) heat treatment of metals, (iv) casting and solidification, (v) sustained drug release in biomaterials, (vi) injection molding, etc.

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In physics, transport phenomena are all irreversible processes of statistical nature stemming from the random continuous motion of molecules, mostly observed in fluids. Every aspect of transport phenomena is grounded in two primary concepts : the conservation laws, and the constitutive equations.

### **Transport phenomena - Wikipedia**

6. Selected Materials Processing Technologies 7. Fluid Flow in Materials Processing 8. Heat Transfer in Materials Processing 9. Mass Transfer in Materials Processing Appendix A. Mathematics Review: Vectors, Tensors, and Differential Equations Appendix B. Software Useful for Transport Phenomena in Materials Processing

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