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### Statistical Physics - Heidelberg University

more than statistical mechanics Information theory provides very helpful insight into the concept of entropy, which is the cornerstone of statistical mechanics Recently this area has been revived by the advent of stochastic thermodynamics, which shows that entropy is not only an ensemble property, but can also be defined for single trajectories Last but not least, statistical physics is **Thermodynamics and Statistical Mechanics**

the statistical properties of the atomic or molecular motion The method adopted in thermodynamics is essentially dictated by the enormous complexity of thermodynamic systems We generally start off with some statistical information about the motions of the constituent atoms or molecules, such as their average kinetic energy, but possess **Fundamentals of Statistical and thermal physics**

Fundamentals of and •"•i Statistical thermal physics F REIF Professor of Physics University of California, Berkeley McGRAW-HILL BOOK COMPANY Auckland Bogota Guatemala Hamburg Lisbon London Madrid Mexico New Delhi Panama Paris San Juan Sao Paulo Singapore Sydney Tokyo Contents Preface vii Introduction to Statistical methods RANDOM WALK AND BINOMIAL ... **PHYS 622 -- Statistical Mechanics -- Spring 2016**

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Pippard, A B, Elements of Classical Thermodynamics: For Advanced Students of Physics, Cambridge University Press, 1957, ISBN: 0521059550 or 9780521059558  
Reif, Frederick, Fundamentals of Statistical and Thermal Physics, McGraw-Hill, 1965, ISBN: 0070518009 or 9780070518001 V ...

### Statistical Physics - DAMTP

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Acknowledgments  
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ThanksalsotoRErhard, SHeinze,CSünderhaufforpointingout severaltypos

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