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Introduction to Physical Metallurgy by Sidney H. Avner

An introduction to physical Metallurgy for those interested in physics and physical chemistry of metals, whether as scientific investigators, manufacturers or users of metals, or students of metallurgy.

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introduction, this second edition has been  
updated and expanded to cover new topics  
such as the numerical analytical techniques  
now being used in industry. This book  
should be of use to welding professionals  
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...

Introduction to the Physical Metallurgy of  
Welding ...

The first chapter is designed to provide a  
wider introduction to the many process  
variables of fusion welding, particularly  
those that may influence microstructure and  
properties. The middle two deal with the  
microstructure and properties of the welded

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joint, such as the weld metal and the heat-affected zone.

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18 Physical metallurgy of metal joining: mechanism of bond formation, effect of local heating on the evolution of structures in metals, heat flow characteristics 42 There are excellent text books on physical

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metallurgy. A few of these are given below.  
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If you are an aspiring engineer and keen to learn physical metallurgy from zero to advanced level, Introduction to Physical Metallurgy by Avner is the best book to start with. The book is also useful for technician programs in industries. The fundamentals concepts presented in this book are simple and accurate.

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