This book is a must for individuals who have an interest in developing sustainable technology and systems in the complex 'Web of Metals' on a fundamental and technological basis, with a focus to the minerals, metals and manufacturing industries. In this inter-, intra- and transdisciplinary book the material/metal cycle is central, addressing both the technological and sustainability issues within the primary mineral and metal producing cycle as well connecting to the secondary consumer product material cycle.

The following major topics are discussed: (i) industrial ecology, (ii) system engineering concepts, (iii) development of future breakthrough technology as well optimization of present technology, (iv) process fundamentals, (v) product design and (vi) environmental legislation.

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