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of illustrative numerical problems have been included throughout the book as an aid to the students the mcgs and numerical problems will definitely be helpful to the aspirants of gate ise ese and other examinations this book is especially designed for diploma undergraduate and postgraduate students of mechanical production and metallurgical and materials engineering key features easy to read style and simple and logical explanation of welding fundamentals the book has numerous numerical problems as examples with solutions and exercises with answers a large number of multiple choice questions mcgs to help gate ise ese aspirants this is the only book which deals about the manufacturing of the welding electrodes the book also deals with incorporation of basic discussion of a relatively new friction stir welding fsw process in this book models for the prediction of lattice parameters of substitutional and interstitial solid solutions as a function of concentration and temperature are presented for substitutional solid solutions the method is based on the hypothesis that the measured lattice parameter versus concentration is the average of the interatomic spacing within a selected region of a bravais lattice the model is applied on ni cu and ge si solid solutions for the interstitial solid solution of the fe c system the method is based on the assumption that the change in lattice parameter of the pure fe phase is due to the occupation by carbon atoms to the octahedral holes in the fcc austenite and bct martensite the model of lattice parameter versus temperature for both substitutional and interstitial solid solutions is based on the relative change in length and vacancy concentration at lattice sites that are in thermal equilibrium combinations of both models then facilitate the calculation of lattice parameters as a function of concentration and temperature the results are discussed accordingly the effect of crystal and order disorder transformations on friction and wear for be co and feco alloys were studied in sliding friction experiments in vacuum at elevated temperatures the results show that friction increases fourfold for the beryllium cobalt alloy during transformation and that friction remains high until the reverse or cooling transformation occurs the friction and wear of be co are markedly superior to 440 c stainless steel the order disorder transformation in feco increases friction by a factor of 30 and also significantly increases wear increased sliding speed and loading affect the transformation the friction behavior during heating is in good agreement with the type of order temperature relation in feco includes entries for maps and atlases an abridgement of a 17 volume set of instructional materials this guide offers brief descriptions of some 130 manufacturing processes tools and materials in such areas a mechanical thermal and chemical reducing consolidation deformation and thermal joining includes numerous tables and 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