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research and developments in the field of material science and metallurgy. Various topics covered in this book are material processing, mechanical properties, and material characterisation, composite materials, nanomaterials, advanced engineering materials, and technologies for space, nuclear, and aerospace applications. The book also focuses on the optimisation of materials for required properties and recent trends in materials science and metallurgy. This book is of great value for researchers and professionals working in the field of material science and metallurgy.