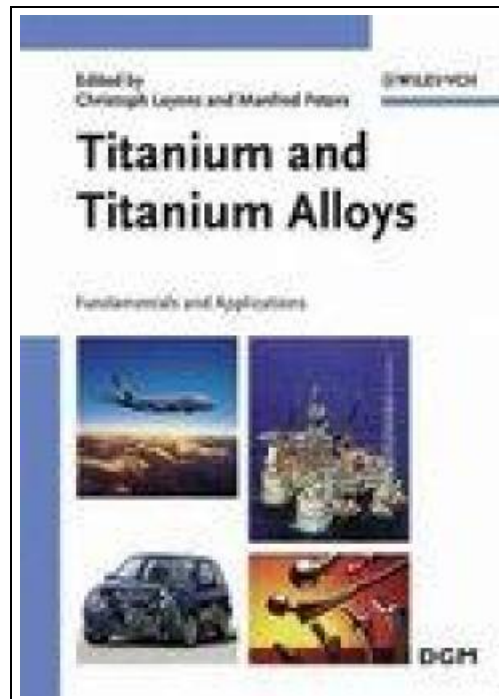


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Reviews

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(Loyal Grady)

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Wiley VCH Verlag GmbH Jul 2003, 2003. Buch. Condition: Neu. Neuware - Bereits die ersten Titanlegierungen, die Ende der 1940er Jahre entwickelt wurden, schrieben Luftfahrtgeschichte. Sie ermöglichten den Eintritt in das Düsentriebwerkzeitalter und damit den Schritt in eine neue Ära der Luft- und Raumfahrt. Auch heute ist Titan noch mit dem Flair des Exotischen umgeben. Inzwischen etablieren sich die Titanlegierungen aufgrund ihrer herausragenden Eigenschaften - hohe spezifische Festigkeit, ausgezeichnete Korrosionsbeständigkeit - jedoch zunehmend auch in der chemischen Industrie, Bauindustrie, Medizintechnik sowie im Off-shore-, Energie- und Automobilbereich. Nicht zuletzt zeigt der stark zunehmende Anteil im Freizeitbereich und in der Schmuckindustrie, dass Titan und seine Legierungen längst auch in Produkte des alltäglichen Gebrauchs vorgedrungen sind. Das Buch, basierend auf der erfolgreichen Fortbildung der DGM, wendet sich primär an Metallkundler, Ingenieure und Techniker aus den Bereichen Forschung, Entwicklung, Herstellung und Anwendung, die sich mit Titan und seinen Legierungen vertraut machen wollen. Neben einführenden Kapiteln über metallkundliche Grundlagen wird auf Herstellung, Verarbeitung und Eigenschaften der Titanlegierungen eingegangen. Darüber hinaus werden Anwendungen des Titans und seiner Legierungen in der Luft- und Raumfahrt, Medizintechnik, Energietechnik sowie im Transport- und Freizeitbereich vorgestellt. This handbook is an excellent reference for materials scientists and engineers needing to gain more knowledge about these engineering materials. Following introductory chapters on the fundamental materials properties of titanium, readers will find comprehensive descriptions of the development, processing and properties of modern titanium alloys. There then follows detailed discussion of the applications of titanium and its alloys in aerospace, medicine, energy and automotive technology. 513 pp. Englisch.

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