

## Metallografie By Hermann Schumann Heinrich Oettel

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"Pressestimmen 'Für Metallografen, Werkstoffwissenschaftler, Materialprüfer, Technologen und alle, die metallische Werkstoffe verarbeiten, ist 'Der Schumann' ein unentbehrliches Arbeitsmittel, Lehrbuch und Nachschlagewerk zugleich.' Giesserei Rundschau, Fachzeitschrift der österreichischen Giesserei-Vereinigungen 'Vor beinahe einem halben Jahrhundert erschien die erste Auflage der 'Metallografie'. Das Buch ist eines der angesehensten Werke innerhalb dieses zentralen Gebietes der Werkstoffwissenschaft. Die nun vorliegende 14. Auflage wurde komplett überarbeitet. ... Die bewährte Grundkonzeption wurde beibehalten, aber inhaltlich gibt es eine Menge Neues.' GIT Laborzeitschrift 'Der neue Schumann ist da - endlich, in nunmehr 14. Auflage. In bewährter Weise bietet dieses Standardwerk der Werkstoffwissenschaft, ..., einen Überblick über Metalle, ihre Legierungen und ihre metallografische Untersuchung. ... Für Metallografen, Werkstoffwissenschaftler, Materialprüfer, Technologen und alle, die metallische Werkstoffe verarbeiten, ist es ein unentbehrliches Arbeitsmittel, Lehrbuch und Nachschlagewerk zugleich.' Metall 'Trotz der grundlegenden Neugestaltung wurde das bewährte Prinzip beibehalten, moderne werkstoffwissenschaftliche Grundlagen und praxisrelevantes anwendungsbereites Wissen zu vermitteln. Besonders wertvoll ist die Vielzahl der Schliiffbeispiele, anhand derer die Metallographie erlebbar wird.' Zeitschrift für Kristallographie 'Die 14. Auflage ist trotz erheblicher Streichungen umfangreicher geworden, wobei in bewährter Weise überwiegend praxisrelevantes Wissen vermittelt wird. ... Damit wird das Buch zum umfangreichen Nachschlagewerk. Als Arbeitsmittel sollte es in keinem

metallografischen Labor fehlen.' MP - Materialprüfung 'Über mehr als fünf Jahrzehnte stand uns steht dieses Werk Pate bei der Ausbildung zur metallographischen Fachkraft und bei der Lösung metallographischen Aufgaben jeglicher Art. Prof. Hermann Schumann ist längst verstorben? An dem fast magischen Klang 'dem Schumann' hat sich aber nichts geändert.'Der Wärmebehandlungsmarkt Januar 2008 Buchrückseite Seit ihrer ersten Auflage, erschienen 1955, hat sich die 'Metallographie' als umfassendes Standardwerk auf diesem wichtigen Arbeitsgebiet der Werkstoffwissenschaft bewährt. Nachdem die letzten Auflagen ohne wesentliche inhaltliche Veränderungen weitergeführt werden konnten, machte nunmehr der aktuelle wissenschaftlich-technische Entwicklungsstand bei der vorliegenden 14. Auflage eine tiefgreifende Überarbeitung erforderlich. Unter Beibehaltung der bisherigen Grundkonzeption wurden insbesondere die Ausführungen zu den Methoden und Bewertungsverfahren der modernen Metallographie einschließlich der hierzu verwendeten Gerätetechnik auf einen modernen Stand gebracht, wobei auch eine Vertiefung bestimmter theoretischer Grundlagen als unumgänglich erschien. Darüber hinaus wurden auch auf werkstoffkundlicher Seite erhebliche Aktualisierungen vorgenommen, indem ältere technologisch nicht mehr relevante Legierungen gestrichen und dafür in den Vordergrund getretene oder neu hinzugekommene aufgenommen wurden. In fünf Hauptabschnitten werden die metallografischen Arbeitsverfahren, die Zustandsdiagramme der Metalle und Legierungen, der Einfluß der Verarbeitungsverfahren auf die Gefügeausbildung sowie die Gefüge der technischen Eisenlegierungen sowie Nichteisenmetalle und ihrer Legierungen behandelt. Für den Praktiker, der sich rasch informieren will, dürfte wesentlich sein, dass theoretische Zusammenhänge stets am praktischen Fall erörtert werden. Über den Kreis der Metallografen, Werkstoffprüfer und Metallwissenschaftler hinaus wird das Buch auch dem Konstrukteur von Nutzen sein, da er zahlreiche Hinweise über Werkstoffe, deren Gefügebau und Beispiele für die Anwendung der metallischen Werkstoffe findet. Alle Produktbeschreibungen".

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June 5th, 2020 - metallography metallography is the study of the structure of metals and of metal alloys through the examination of specimens with a metallurgical microscope the structures observed in the microscope are often recorded photographically the metallographic study of an archaeological artifact involves the removal of a small

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iron and steel written in the late 1700s sorby in his classic work published in 1887 on the microscopical structure of iron and steel showed nature prints which were inked contact prints of steel etched in moderately strong aqueous nitric acid

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