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Algorithmische Graphentheorie Zahlentheorie und Zahlenspiele Volker Turau  
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Algorithmische Graphentheorie Zahlentheorie und Zahlenspiele *Volker Turau Hartmut Menzer*

die algorithmische graphentheorie ist ein bereich der informatik der sich mit der entwicklung und analyse von algorithmen für probleme befasst welche mithilfe von graphen modelliert werden das anwendungsspektrum solcher algorithmen ist vielfältig analyse von computernetzen operations research künstliche intelligenz optimierung von technischen prozessen etc kenntnisse von graphalgorithmen und graphenrepräsentationen gehören zu den kernkompetenzen der informatik und verwandter fachrichtungen dieses lehrbuch deckt alle wichtigen bereiche der algorithmischen graphentheorie ab die algorithmen sind in kompakter form in einer programmiersprachennahen notation dargestellt diese macht eine implementierung mit jeder modernen programmiersprache leicht ein schwerpunkt des buches bildet die vermittlung von kompetenzen für die eigene entwicklung von algorithmen dazu werden sechs entwurfsmethoden ausführlich behandelt die vorliegende fünfte auflage wurde um ein kapitel über randomisierte algorithmen und deren analyse erweitert es behandelt zahlreiche anwendungen dieser neuen methodik das buch richtet sich an studierende an universitäten und fachhochschulen sowie an alle die konkrete probleme mittels graphalgorithmen praktischen lösen wollen

die 3 ergänzte auflage stellt auf breiter fachlicher ebene einfache elementare zahlentheoretische inhalte vor sowie stoffkomplexe aus der analytischen und algebraischen zahlentheorie das lehrbuch bietet auf überschaubaren mathematischen niveau einen leicht verständlichen einstieg in ausgewählte themen der zahlentheorie und beschreibt aktuelle forschungsergebnisse zum rsa algorithmus sämtliche kapitel enthalten umfassende beispiele Übungsaufgaben mit lösungen und ausführlich durchgerechnete beweise so dass es sich sehr gut zur prüfungsvorbereitung eignet

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