

Buchmann Einführung in die Kryptographie

1. Auflage 2009

$$c = m^e \bmod n$$



Einführung in Die Kryptographie (Undergraduate Texts in Mathematics)

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Aus den Rezensionen zur 2. Auflage: "Diese von einem Mathematiker geschriebene 'Einführung in die Kryptographie' fällt sofort durch ihren präzisen und logisch einwandfreien Stil auf. Die verwendeten Begriffe (Verschlüsselungsverfahren, perfekte Sicherheit, Hashfunktion, ...) werden mathematisch sauber und kurz definiert, und es wird sehr wohl unterschieden, was 'bewiesen' ist ...] und 'allgemeiner Glaube der Experten' ist. Trotz dieser mathematischen Genauigkeit ist dieses Buch insbesondere für Anfänger und speziell auch für Nicht-Mathematiker sehr verständlich gehalten. Das nötige mathematische Werkzeug (Restklassenringe, Matrizen und lineare Abbildungen, Wahrscheinlichkeit, Erzeugung von Primzahlen, Faktorisierungsverfahren, Ausblick auf Einführung in Die Kryptographie (Undergraduate Texts in Mathematics) elliptische Kurven) wird vor der jeweiligen Anwendung vorgestellt. Dann wird der Themenkreis prägnant, sehr verständlich und mit Beispielen illustriert, besprochen, wobei der Geübte die dahinterliegende mathematische Idee schnell erkennen kann. Dabei werden im Wesentlichen alle Basistechniken der modernen Kryptographie erfasst. Soweit möglich bzw. möglich, wird das englische Fachvokabular der Kryptographie in die deutsche Sprache übersetzt. Ich hoffe, dass die Freude des Rezensenten beim Lesen dieses Buches auch von vielen anderen Lesern ebenfalls empfunden werden kann." (Int. Math. Nachrichten 2002, Vol 56, factor 189). "Klein, aber fein" ist das Charakteristikum des Buches: Jeder Abschnitt ist mit (für Mathematiker) sehr anschaulichen Beispielen und kleinen Übungsaufgaben versehen. Entwickler finden hier eine reiche Quelle der Hintergründe, die sie für eine Implementation wissen müssen." (Amazon.de-Redaktion)

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