

**ZMATH 2011d.00836**

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**Discrete mathematics for beginners. With applications in technics and computer science. (Diskrete Mathematik für Einsteiger. Mit Anwendungen in Technik und Informatik.) 4th updated ed.**

Studium. Wiesbaden: Vieweg+Teubner (ISBN 978-3-8348-1248-3/pbk). viii, 254 p. (2011).

This is the 4th edition of a book which was first published in 2002 and which we reviewed in Zbl 1037.00001 (cf. also ME 2002f.05556). Aside from some actualizations, the main change is the addition of detailed solutions to the over 200 exercises. Thus, it should be even easier to understand the topics of Discrete Mathematics treated in the 10 chapters.

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*Classification:* N70

*Keywords:* discrete mathematics; pigeon-hole principle; colouring; induction principle; Fibonacci numbers; binomial coefficients; sieve formulas; counting; elementary number theory; divisibility; modular arithmetic; error detecting codes; check digit systems; cryptography; Vigenère code; one-time pad; shift register; public-key cryptography; graph theory; trees; planar graphs; chromatic number; five-colour theorem; networks; flows; theorem of Menger; Boolean algebra; Karnaugh-Veitch-diagram