

[PDF] Meta Math!: The Quest For Omega

Gregory Chaitin - pdf download free book



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Description:

From Note the exclamation point: Chaitin is on fire about math and is unable to restrain his enthusiasm. No mere number cruncher, he is renowned for finding another proof of Kurt Godel's incompleteness theorem and another for Alan Turing's "halting problem" in computation. Chaitin explains these two achievements here, in prose that is difficult for general readers to follow, but the spirit he brings to his subject will be apparent to all. Chaitin radiates his zeal like a preacher seeking converts. His asides often directly speak to students who might want to become professional mathematicians, stoking their fire, for example, with the vulnerability of even ancient theorems to new analysis (he sketches two ways, in addition to Euclid's, to prove the infinity of prime numbers).

Chaitin's freewheeling expressions of mathematical creativity will be this work's lasting impression.

Gilbert Taylor

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Review "A startling vision of the future of mathematics. . . . The Chaitinesque intellectual future will be eternally youthful and anarchic."-*American Scientist*

"Math's dark secret is out. . . . Chaitin explains why omega, a number he discovered thirty years ago, has him convinced that math is based on randomness."

-*Time Magazine*

"Captivating. . . . With extraordinary skill and a gentle humor, Chaitin shares his profound insights."

-Paul Davies, author of *How to Build a Time Machine*

"A clearly written and witty look at a difficult subject. . . . Chaitin explains with infectious enthusiasm how mathematics doesn't equal certainty." -*Science News*

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