**AN INTRODUCTION TO**
**THE THEORY OF NUMBERS**

Fifth Edition, First Printing

by

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John Wiley (New York), 1991

CORRECTIONS

| PAGE/LINE | |
|---|---|
| v/-8 | for '(Section 2.4)' read '(Section 2.5)' |
| v/-7 | for 'Hansel' read 'Hensel' (Gretel's theorem was omitted) |
| vi/-4 | After 'C. Pomerance' insert 'J. Rickert' |
| vi/-3 | between 'H.' and 'C. Williams' delete 'J. Rickert' |
| vii/7 | for 'Bionomial' read 'Binomial' |
| 2/-11 | for '135' read '133' |
| 4/18 | for '$\{-2,-1,0,1,2,\ldots\}$' read '$\{\ldots,-2,-1,0,1,2,\ldots\}$' |
| 6/19 | for '$a = 248$' read '$a = 428$' |
| 27/2 | for 'Let $\mathcal{N}$ denote' read 'Let $N$ denote' |
| 33/-11 | As of July, 1992, the largest prime known is $M_{756839}$. |
| 53/4 | for '$(p-1) \equiv -1$' read '$(p-1)! \equiv -1$' |
| 56/2 | for '$ac + bc$' read '$ad + bc$' |
| 72/-1 | for '$p^{\alpha_r}$' read '$p^{\alpha_i}$' |
| 88/5 | after '$x^2 + x + 47$' insert '$\equiv 0$' |
| 88/7 | for '$a = 1$' read '$a \equiv 1$' |
| 88/-17 | for '$x^2 + x + 7 \pmod{81}$' read '$x^2 + x + 7 \equiv 0 \pmod{81}$' |
| 88/-16 | for '$x^2 + x + 7 \pmod{3}$' read '$x^2 + x + 7 \equiv 0 \pmod{3}$' |
| 107/3 | insert 'and $k > 0$' |
| 107/-12 | after 'if and only if' insert '$m$ is composite and' |
| 108/-8 | for '(mod $m$)' read '(mod $q$)' |
| 110/14 | for '$x^2 \equiv a \pmod{p}$' read '$v^2 \equiv k \pmod{p}$' |
| 114/-11 | for '$x^2 \equiv a$' read '$(x-r)^2 \equiv k$' |
| 130/25 | for 'Corollary 2.29' read 'Corollary 2.30' |
| 141/Problem 18 | replace '1111111111111' by '1111118111111' (in two places) |
| 142/3 | before '.' insert 'and that $p > 2$' |
| 153/10 | insert 'g.c.d.$(m_1, m_2) = 1$' |

OVER

| | |
|---|---|
| 153/-11 | for ‘if $\left(\frac{d}{p}\right) = 1$.’ read ‘if $p \mid d$ or $\left(\frac{d}{p}\right) = 1$.’ |
| 153/-8 | for ‘$\left(\frac{d}{p}\right) = 1$’ read ‘$\left(\frac{d}{p}\right) = 1$ or 0’ (in two places) |
| 162/18 | after ‘and only if’ insert ‘$p = 2$, $p = 5$, or’ |
| 162/-6 | after ‘$\left(\frac{p}{5}\right) = 1$’ insert ‘or 0’ |
| 162/-3 | after ‘if and only if’ insert ‘$p = 5$ or’ |
| 162/-1 | after ‘if and only if’ insert ‘$p = 2$ or’ |
| 181/10 | for ‘$-x = n - 1 + 1 - \nu$’ read ‘$-x = -n - 1 + 1 - \nu$’ |
| 189/2 | after ‘$p^\beta \mid n$’ add ‘, $\beta > 0$’ |
| 195/Problem 5 | Replace first ‘.’ by ‘,’ |
| 196/6 | for ‘Theory’ read ‘Theorem’ |
| 205/Problem 14 | after ‘distinct’ insert ‘and non-consecutive’ |
| 219/3 | after ‘solvable’ insert ‘and $b \neq 0$’ |
| 233/-9 | for ‘$v$’ read ‘$y$’ |
| 245/7 | for ‘$b = 1$’ read ‘$b = -1$’ |
| 245/7 | for ‘$y = -1$’ read ‘$y = 1$’ |
| 249/2 | after ‘$N(p) = 2p^2 - p$’ add ‘, except that $N(2) = 4$’ |
| 279/17 | for ‘$b$ is odd’ read ‘$b$ is even’ |
| 302/-2 | for ‘at’ read ‘a’ |
| 323/1 | for ‘207’ read ‘210’ |
| 330/-3 | for ‘$i \geq 1$’ read ‘$i > 1$’. |
| 333/-14 | for ‘$a_0 > 0$’ read ‘$a_0 \geq 0$’. |
| 340/-15 | for ‘integers $x$ and all $y$’ read ‘pairs of integers $x, y$’ |
| 340/-14 | for ‘to $\xi$’ read ‘$h_n/k_n$ to $\xi$ with $n > 0$’ |
| 344/Problem 4 | replace ‘$\xi - \frac{h}{k}$’ by ‘$\lvert\xi - \frac{h}{k}\rvert$’ |
| 456/-7 | for ‘$\sum_{k=0}^{p(k)} x^k$’ read ‘$\sum_{k=0}^{\infty} p(k)x^k$’ |
| 512/7 | for ‘3360’ read ‘3660’. |
| 514/-17 | for ‘1, 4, 7 (mod 27)’ read ‘4, 13, 22 (mod 27)’ |
| 515/7 | for ‘$(b)$ $(x+1)^2 \equiv 4$’ read ‘$(b)$ $(x-6)^2 \equiv 4$’ |
| 515/8 | for ‘$(d)$ $(2x+1)^2 \equiv 5$’ read ‘$(d)$ $(x-6)^2 \equiv 11$’ |
| 515/9 | for ‘$x \equiv \pm 5 \pmod{19}$’ read ‘$x \equiv \pm 9 \pmod{19}$’ |
| 516/§3.1;**6.**(a) | for ‘$\pm 1, \pm 2, \pm 3 \pmod{13}$’ read ‘$\pm 1, \pm 3, \pm 4 \pmod{13}$’ |
| 518/-15 | insert ‘(7, 24, 25), (24, 7, 25)’. |

Revised 8 September, 1994