

GENERALIZATIONS OF BERNOULLI NUMBERS AND POLYNOMIALS

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and LOKENATH DEBNATH

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The concepts of Bernoulli numbers B_n , Bernoulli polynomials $B_n(x)$, and the generalized Bernoulli numbers $B_n(\alpha, b)$ are generalized to the one $B_n(x; \alpha, b, c)$ which is called the generalized Bernoulli polynomials depending on three positive real parameters. Numerous properties of these polynomials and some relationships between B_n , $B_n(x)$, $B_n(\alpha, b)$, and $B_n(x; \alpha, b, c)$ are established.

2000 Mathematics Subject Classification: 11B68, 33E20.

1. Introduction. It is well known that Bernoulli's numbers and polynomials play important roles in mathematics. They are main objects in the theory of special functions [5]. Their definitions can be given as follows.

DEFINITION 1.1. The numbers B_n , $0 \leq n \leq \infty$, are called Bernoulli numbers if

$$\phi(t) = \frac{t}{e^t - 1} = \sum_{n=0}^{\infty} \frac{B_n}{n!} t^n, \quad |t| < 2\pi. \quad (1.1)$$

DEFINITION 1.2. The functions $B_n(x)$, $0 \leq n \leq \infty$, are called Bernoulli polynomials if they satisfy

$$\phi(x; t) = \frac{t e^{xt}}{e^t - 1} = \sum_{n=0}^{\infty} \frac{B_n(x)}{n!} t^n, \quad |t| < 2\pi, \quad x \in \mathbb{R}. \quad (1.2)$$

The usual definition of higher-order Bernoulli polynomials is

$$\frac{t^\sigma e^{xt}}{(e^t - 1)^\sigma} = \sum_{n=0}^{\infty} \frac{B_n^\sigma(x)}{n!} t^n, \quad |t| < 2\pi. \quad (1.3)$$

In [2, 4] the second and third authors generalized the concept of Bernoulli numbers as follows.

A Generalization Of The Bernoulli Numbers

Lawrence C. Washington



A Generalization Of The Bernoulli Numbers:

A Generalization of the Bernoulli Numbers Hasmiah Bahari, 2006 *A Classical Introduction to Modern Number Theory* Kenneth Ireland, Michael Ira Rosen, 1990-09-07 This well developed accessible text details the historical development of the subject throughout It also provides wide ranging coverage of significant results with comparatively elementary proofs some of them new This second edition contains two new chapters that provide a complete proof of the Mordel Weil theorem for elliptic curves over the rational numbers and an overview of recent progress on the arithmetic of elliptic curves

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Landman, Florian Luca, Melvyn Nathanson, Jaroslav Nešetřil, Aaron Robertson, 2024-11-04 This volume consists of twenty articles stemming from presentations given at the 2023 Integers Conference They represent a variety of active areas of research in combinatorial number theory including additive number theory multiplicative number theory elementary number theory the theory of partitions Ramsey theory sequences algebraic combinatorics enumerative combinatorics and Diophantine equations **Bernoulli Numbers** Albert John Coleman, Karl Dilcher, Ladislav Skula, Paulo Ribenboim, 1991

Unusual Applications of Number Theory Melvyn Bernard Nathanson, 2004 This volume contains the proceedings of the workshop held at the DIMACS Center of Rutgers University Piscataway NJ on Unusual Applications of Number Theory

Standard applications of number theory are to computer science and cryptology In this volume well known number theorist Melvyn B Nathanson gathers articles from the workshop on other less standard applications in number theory as well as topics in number theory with potential applications in science and engineering The material is suitable for graduate students and researchers interested in number theory and its applications

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Applications of Fibonacci Numbers Fredric T. Howard, 2004-02-29 This book contains 28 research articles from among the 49 papers and abstracts presented at the Tenth International Conference on Fibonacci Numbers and Their Applications These articles have been selected after a careful review by expert referees and they range over many areas of mathematics The Fibonacci numbers and recurrence relations are their unifying bond We note that the article Fibonacci, Vern and Dan which follows the Introduction to this volume is not a research paper It is a personal reminiscence by Marjorie Bicknell Johnson a longtime member of the Fibonacci Association The editor believes it will be of interest to all readers It is anticipated that this book like the eight predecessors will be useful to research workers and students at all levels who are interested in the Fibonacci numbers and their applications March 16 2003 The Editor Fredric T Howard Mathematics Department Wake Forest University Box 7388 Reynolda Station Winston Salem NC 27109 xxi THE ORGANIZING COMMITTEES LOCAL COMMITTEE INTERNATIONAL COMMITTEE Calvin Long Chairman A F Horadam

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