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“This third volume is principally devoted to research from the past dozen years. For example, the reader will find accounts of recent work on the de Bruijn–Newman constant, and on Jensen polynomials. The final chapters discuss undecidability questions, and the book ends with an extended series of appendices giving important background. As with the earlier volumes, the book demonstrates the impressive range of mathematical ideas that connect with the elusive Riemann hypothesis.”

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“Volume 3 contains a quite diverse range of RH equivalences, going from classical analytic number theoretic involving the divisor function, to undecidability of the RH. Furthermore, impressive recent progress on computing the de Bruijn–Newman constant and connections with special polynomials is reported on.”

Pieter Moree, Max Planck Institute for Mathematics

Broughan

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RIEMANN HYPOTHESIS

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Volume Three: Further Steps towards
Resolving the Riemann Hypothesis

Kevin Broughan

