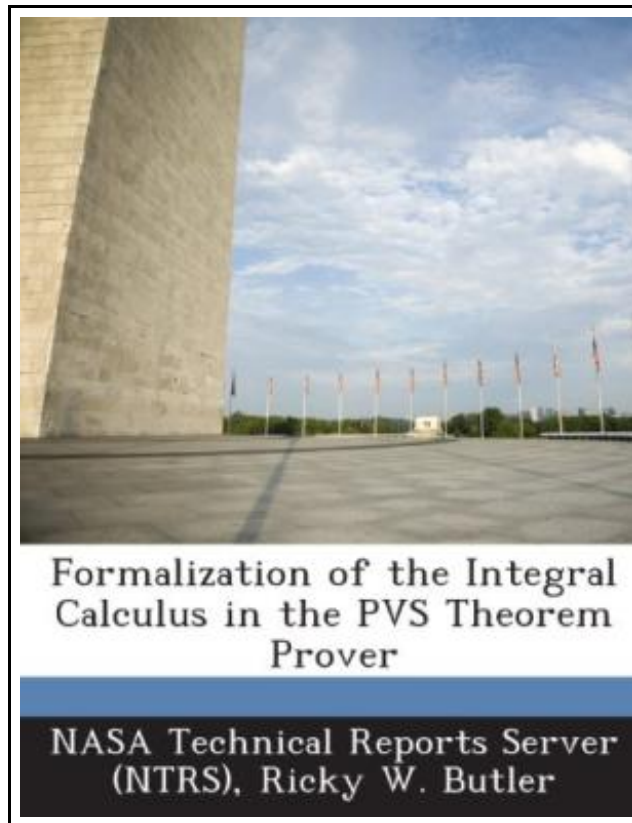# Formalization of the Integral Calculus in the Pvs Theorem Prover

Filesize: 7.58 MB

Reviews

Just no words to explain. it was actually writtern quite perfectly and valuable. Your daily life period will be convert as soon as you total looking at this pdf.

(Mr. Brook Marquardt Jr.)

FORMALIZATION OF THE INTEGRAL CALCULUS IN THE PVS THEOREM PROVER

To save **Formalization of the Integral Calculus in the Pvs Theorem Prover** PDF, make sure you click the hyperlink below and download the ebook or have accessibility to additional information that are highly relevant to FORMALIZATION OF THE INTEGRAL CALCULUS IN THE PVS THEOREM PROVER ebook.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 32 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.The PVS Theorem prover is a widely used formal verification tool used for the analysis of safety-critical systems. The PVS prover, though fully equipped to support deduction in a very general logic framework, namely higher-order logic, it must nevertheless, be augmented with the definitions and associated theorems for every branch of mathematics and Computer Science that is used in a verification. This is a formidable task, ultimately requiring the contributions of researchers and developers all over the world. This paper reports on the formalization of the integral calculus in the PVS theorem prover. All of the basic definitions and theorems covered in a first course on integral calculus have been completed. The theory and proofs were based on Rosenlichts classic text on real analysis and follow the traditional epsilon-delta method. The goal of this work was to provide a practical set of PVS theories that could be used for verification of hybrid systems that arise in air traffic management systems and other aerospace applications. All of the basic linearity, integrability, boundedness, and continuity properties of the integral calculus were proved. The work culminated in the proof of the Fundamental Theorem Of Calculus. There is a brief discussion about why mechanically checked proofs are so much longer than standard mathematics textbook proofs. This item ships from La Vergne,TN. Paperback.

📄 Read Formalization of the Integral Calculus in the Pvs Theorem Prover Online
📄 Download PDF Formalization of the Integral Calculus in the Pvs Theorem Prover

Relevant PDFs

[PDF] Animalogy: Animal Analogies

Click the web link listed below to get "Animalogy: Animal Analogies" document.

Download Book »

[PDF] The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up

Click the web link listed below to get "The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up" document.

Download Book »

[PDF] Good Night, Zombie Scary Tales

Click the web link listed below to get "Good Night, Zombie Scary Tales" document.

Download Book »

[PDF] The Mystery at Motown Carole Marsh Mysteries

Click the web link listed below to get "The Mystery at Motown Carole Marsh Mysteries" document.

Download Book »

[PDF] God Loves You. Chester Blue

Click the web link listed below to get "God Loves You. Chester Blue" document.

Download Book »

[PDF] Yearbook Volume 15

Click the web link listed below to get "Yearbook Volume 15" document.

Download Book »