



## Mathematics and sports

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Gallian, Joseph A.

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Monografía

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**Contenido:** I. Baseball.) Sabermetrics : the past, the present, and the future Jim Albert. -- Surprising streaks and playoff parity : probability problems in a sports context Rick Cleary. -- Did humidifying the baseball decrease the number of homers at Coors Field? Howard Penn. -- Streaking : finding the probability for a batting streak Stanley Rothman and Quoc Le -- II. Basketball.) Bracketology : how can math help? Tim Chartier [and others]. -- Down 4 with a minute to go G. Edgar Parker. -- Jump shot mathematics Howard Penn -- III. Football.) How deep is your playbook? Tricia Muldoon Brown and Eric B. Kahn. -- A look at overtime in the NFL Chris Jones. -- Extending the Colley method to generate predictive football rankings R. Drew Pasteur. -- When perfect isn't good enough : retrodictive rankings in college football R. Drew Pasteur -- IV. Golf.) The science of the drive Douglas N. Arnold. -- Is Tiger Woods a winner? Scott M. Berry. -- G.H. Hardy's golfing adventure Roland Minton. -- Tigermetrics Roland Minton -- V. NASCAR.) Can mathematics make a difference? Exploring tire troubles in NASCAR Cheryl E. Crowe -- VI. Scheduling.) Scheduling a tournament Dalibor Froncek -- VII. Soccer --) Bending a soccer ball with math Tim Chartier -- VIII. Tennis.) Teaching mathematics and statistics using tennis Reza Noubary. -- Percentage play in tennis G. Edgar Parker -- IX. Track and field.) The effects of wind and altitude in the 400m sprint with various IAAF track geometries Vanessa Alday and Michael Frantz. -- Mathematical ranking of the Division III track and field conferences Chris Fisette. -- What is the speed limit for men's 100 meter dash Reza Noubary. -- May the best team win : determining the winner of a cross country race Stephen Szydlik. -- Biomechanics of running and walking Anthony Tongen and Roshna E. Wunderlich

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