

## Sports: At Coto Research Center

At Coto Research Center, \$3 million worth of computer technology helps athletes improve abilities.

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The article from Delta Air Lines Inflight Magazine, published in July 1982, discusses the emerging field of biomechanics and its potential to revolutionize sports performance. Biomechanics, the computer analysis of athletic motion, is predicted to significantly enhance athletes' abilities, potentially leading to unprecedented sports achievements. The article highlights the work of Gideon Ariel, head of the Coto Research Center, who uses \$3 million worth of computer technology to analyze and improve athletes' performance. The technology involves filming athletes in action and converting the footage into stick figure frames for detailed computer analysis. The article also discusses the potential of biomechanics to improve sports equipment design and manufacturing techniques. However, it notes that biomechanics cannot measure psychological factors that affect performance. The article concludes by discussing the potential role of computers as special assistant coaches, helping to analyze and adapt team strategies.

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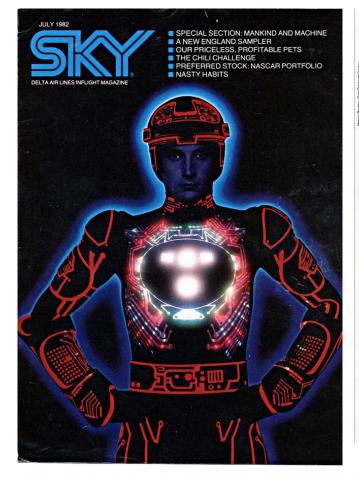
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Below find a reprint of the 4 relevant pages of the article "Sports: At Coto Research Center" in "Sky Delta Air Lines Magazine":



"Computers will help improve the quality of players and, as a result, there isn't a single record that couldn't be broken.

facturing techniques for sports equipment. Balls will bounce truer. Clubs will swing more effortlessly. Shoes will absorb more shock. "Biomechanics will help create better exidenced to reduce liviting and improve

"Biomechanics will help create better equipment to reduce injuries and improve performance, and thus give the athlete a smalb ut viale dog, "said Dr. Peter Cava-nagh, professor of biomechanics at Perm State University," and share could make a more efficient is could urm him from an also-ran into a champion, Dr. Cavanagh article

added. But you won't have to be in the starting backfield of the San Francisco Forty-Niners or another Bruce Jenner to take advantage of biomechanics. As a weekend athilde in the year 2001, you can head for the nearest biomechan-ics analysis conter where your athletic permission of the start of the start of the permission of the start of the start of the permission of the start of the start

Computers will play another big role in the sports score – as a special assista or processing everythin the sports score – as a special assista or processing everythin the sport of the special score of the special score



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### **MODE: Sports**



utertechnology hejos athletes improve abilites. health spa as Nauflus equipment is now. "Anything you can do, you can do abeter through biomechanics — even if you're as Workes Lorm keid of biomechanics. "Some superstars could do S0 percent better." Tha's because the John McEnces, Walter Paytons and Sugar Ray Leonards of today simply haven't reached their physical limits yet. But tomorrow's stars uil approach the threshold of their own athletic particition through biomechanics. He heads the Coch Research Center in Coto de Caza, California, a sports clinic which relies on S5 million work of com-puter technology to enhance athletes' rch Center, \$3 n

At Coto Research Center, S3 million worth of com Power hitters slugging 60 homers a season ... running backs running back cotos the financi fill and the streaking cotos the financi fill and the streaking cotos the financi fill and the streak method the streak of the streak the westicated to biomechanics is already doing more to raise the limits of human lipited. Ard by the year 2000, computer-ted dercise equipment and ultra sophis cated measuring devices will be as much a part of the training room, clubbouse and

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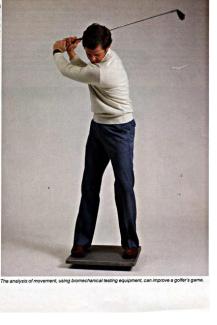
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physical renativation and improve use parformance. The physical movies which are converted to frames of sitck figures its converted to frames of sitck figures its converted to the frames of sitck figures its converted to the physical calculation then are made of body movement, think provement. The information gained can do more information gained can do more information gained can do more the sitch and the sitch of the sitch and the sitch of the sitch and of the sitch of the

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off the final two innings with another reliever. Arrange the batting order accord-ing to the players' batting average. Iead-ing off with the best. Pursits may moan like a sore-armed pitcher, but computers are here to stay. Says Dr. Deker, "There's no reason why any high school football costs carrl use computer technics by to adapt here to the stay of the start of the start and the school football costs and the analyzed strengths and weaknesses and patterns of the opponent."

and have been for some time. "Pro teams will have to go the way of the Cowboys if your source of the team of team of the team of team of team of the team of team



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