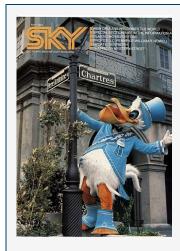


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Playing

Sports involve dynamic motion and strategy. That boils downto engineering and mathematics, two enasin which computers always win.



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Title Playing

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The article discusses the increasing role of computers in sports, from strategy development to performance analysis. It highlights how National Football League teams are using computers to analyze game variables and develop strategies. The article also mentions how computers are used to translate film images of athletes into mathematical formulas to improve their movements. Furthermore, it discusses how computers are used in managing sports information and statistics, and in broadcasting sports events. The article also predicts that individuals might soon use personal computers for sports training and analysis.

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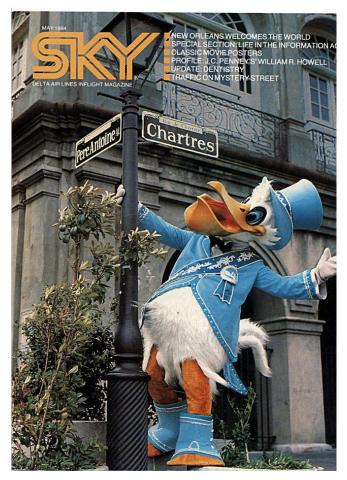
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Below find a reprint of the 4 relevant pages of the article "Playing" in "Sky Delta Air Lines Magazine":





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Sports involve dynamic motion and strategy. That boils down to engineering and mathematics, two arenas in which computers always win.

A s long as we keep the current defi-nition of "sport" in our dictionaries, sports and athletics will always be human, first and last. It's between that "first" and "last" that computers get into the act. And getting into it they are — in a big way. Granted, the final determinant of a

sporting contest may be something utterly uncomputable and human — like will, drive, determination. But sports involve dynamic motion and strategy. That boils down to engineering and mathematics, two arenas in which computers always win.

Take football, for instance. Bone-

crunching tackles aside, any footbe player or fan will tell you this is a menti-sport, one of strategy and the meshing to fundreds of variables at any momen That's a lot of information. That's with most National Football League team have now brought their computers for the front office (where they have bee used for bookkeeping since 1960) into the forth office, where they have bee used for bookkeeping since 1960) into the forth office. When Philadelphia Eaglet Janning norms. The Philadelphia Eaglet Janning norms. The Philadelphia Eaglet used to be considered to the football the state of the state



At the U.S. Olympic Committee Elite Athlete Train

PLAYING

For example, when the San Diego Chargers were preparing to play the Kan-sas City Chiefs in 1980, the Chargers' computer pointed out that the Chiefs used one formation 70 percent of the time be-

tween the 20-yard line and the goal. Then the computer designed a special play just to take advantage of that formations to take advantage of that formations that the second of a and the second of a set of played point in the second of a set of the second of a set of the second of a set of the second of the s

have also caught on to computerize

have also caugm uncoaching.
Computers are doing a lot when i
comes to less strategy-laden individua
sports. Computers can translate film im
ages of an athlete in motion into
mathematical formulae, then apply en
igneering principles to show the athlete is
more efficient way to move.

Continued





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Thoughtware Is The Future.

It's a new way to learn, a logical and innovative approach to management training. It will revolutionize management training now, and in the future. Thoughtware utilizes the latest research in management development from leaders in the field, and has been tested nationally and has been tested nationally. For individuals, and their

For individuals, and their organizations, the educational, economic and operational benefits of Thoughtware's computer-based learning programs are enormous. But Thoughtware isn't just the future.

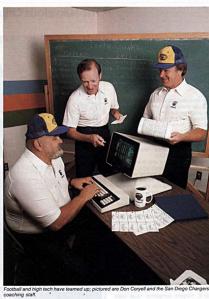
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Thoughtware Is The Presen Some of the largest and most prestigious corporations and organizations in the world have purchased Thoughtware's assessing Personal Management Skills Program.

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And hundreds more. What they ve learned, you can now discover. You can reap the benefits of Thoughtware by visiting your local computer dealer, or call us at our toll-free number 1-800-THT-WARE, or write: Thoughtware Inc. Dept. F, 2699 So. Bayshore Dr. Coconut Grove, Florida 33133. Thoughtware Programs incluse: 1.3 Understanding Personal Interaction Systes (385): 2.3 Defining Goals And Objectives (8450)



PLAYING

An experimental system using pressure sensors placed in track shoes, and remote transmitter in a bet are helping race-walkers analyze and perfect their strides for the Summer Olympics, its devolopers hope they will also be useful to teaching the handcapped to walk. In eaching the handcapped to walk. In But as sports grow more complex, the But as sports grow more complex, the management of sports information and statistics. No sports TV crew could function without computers now. Besides ham-

tion without computers now. Besides handling the logistics of up to 20 cameras and 150 technicians, computers retrieve the

statistics and generate the graphics yo

statistics and generate the graphics yoe on the screen.

The Los Angeles Olympics will use 1: room-sized computers attached to 1,80 remote terminals to keep schedules, records and performances straight for th August games, which will sprawl over 6 sets in three or you might find yourself or the golf course consulting your pocket sized computer and range finder for th right club. Or attending a tennis clini equipped with game and stroke analysi computers. Or sailing in a boat designey a computer like the ones North Sta Salis Inc. used to cut more efficient sail used to design the Australia II that too the Cup away.

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