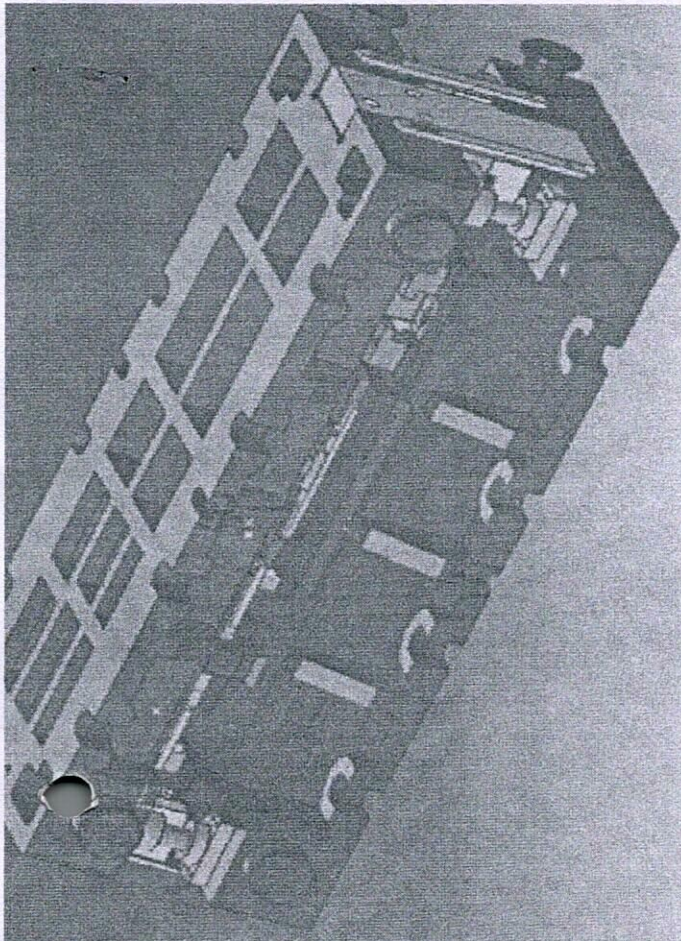


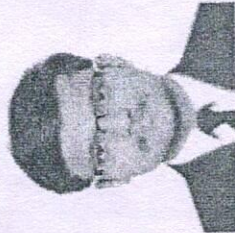
ABOUT BOOK

Die manufacturing is one of most Accurate and High production methods of manufacturing. So, design of die is very crucial thing in this book progressive die for an industrial part, is designed in single stroke of press 3 operations are going to performed on 3 different stations. At each station required die and punch set along with supporting parts for die are designed with proper safety taken into account.



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ABOUT AUTHOR



Rahul A. Patil is an Assistant Professor at PCET's Nutan Maharashtra Institute of Engineering and Technology in Pune. He earned his bachelor's degree in Mechanical Engineering from S.S.V.P.S.'s B.S. Deore COE Dhule. As a consequence, he has been teaching. He received his postgraduate's degree from RSTM Nagpur University. Currently pursuing Ph.D. (Mechanical) from KBC NIMU, Jalgaon University. He has more than years of teaching experience. Finite Element Analysis, CAD / CAM, Mechanical Vibration are some of his favorite subjects to teach.

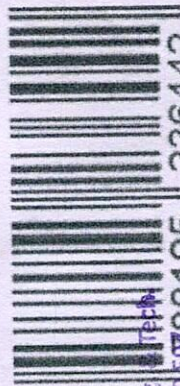


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Design of Progressive Die for Industrial Part

Rahul A. Patil



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ABOUT BOOK

In the scenario of a COVID19 pandemic, visitors should have their temperatures checked to identify fever before entering the city via airports, train stations, or even at highway toll booths. Thermal screening is required at shopping malls, multiplexes, supermarkets, and other locations before allowing guests entry. The three subsystems in this book are the Human Presence Detection System, Temperature Measurement System, and automatic door access control with display. The book is about embedded systems and how they may be used in a variety of real-world applications using Arduino software. The suggested system uses an IR sensor to identify a person, and if a change in temperature is observed, the control unit (8mega 328 microcontroller) sends a control action to the relay driver unit, which subsequently activates the door.

ABOUT AUTHOR



Abhijeet S. Jadhav



Prathamesh Abinave



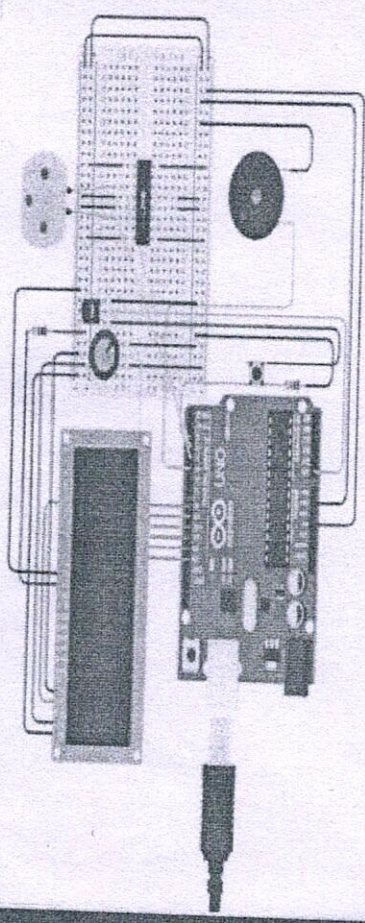
Mahesh B. Kharade



Somnath Barwekar



Vishalsingh D. Rajput



Human Body Temperature Sensing Smart Door Design

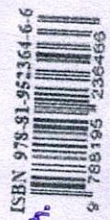
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ABOUT BOOK

In this book, we examined the advantages of 360o conveyor belt systems and finished design and analysis. A 360o belt conveyor transfers things from one location to another using a rotating and up-down mechanism. This conveyor has a large load carrying capacity, a long conveying path, is easy to load and unload, and has a basic design. A 360-degree belt conveyor system may be used to carry materials in a foundry shop, such as mounding sand, molds, and trash disposal.

ABOUT AUTHOR



Chaitanya Pawar



Akshay Paradhe



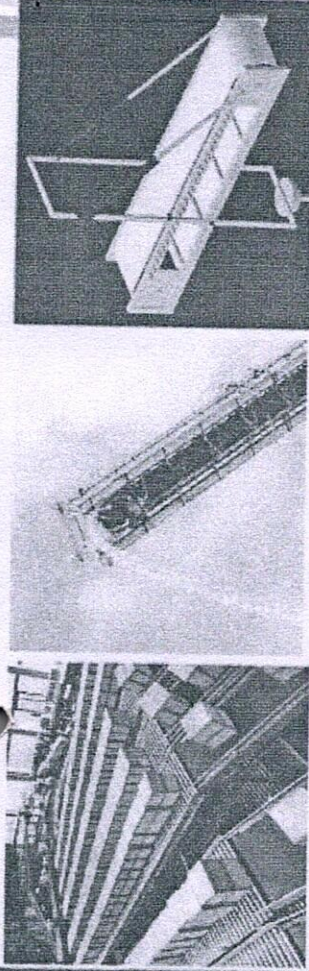
Ganesh Waman



Viresh Naik



Vishal Singh D. Rajput



RESTRUCTURING HORIZONTAL ROTATING FLAT BELT CONVEYOR

Akshay Paradhe
Chaitanya Pawar
Ganesh Waman
Viresh Naik
Vishal Singh D. Rajput

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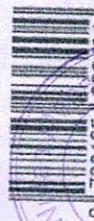
ABOUT BOOK

The propeller shaft is one of the most important components of a vehicle. Torsion forces are frequently applied to it. Friction and bending stress are induced by the weights of the materials. Vibration during service is a common sign of drivetrain failure. This book gives a comprehensive review of the most recent cracks and crack identification techniques. Local flexibility is introduced by a crack in a structural part, which influences the structure's vibration responses. In this book, natural frequency is used to measure crack. This book would provide a method for crack detection at the first level using vibration techniques that is both accurate and efficient.

ABOUT AUTHOR



Vishal Singh D. Rajput is an Assistant Professor at PCET's Nutan Maharashtra Institute of Engineering and Technology in Pune. He earned his bachelor's degree in Production Engineering from Nanded's Shri Guruji Gobind Singhji Institute of Engineering and Technology (SGSIET). As a consequence, he has been teaching. He received his postgraduate degree from Savitribai Phule Pune University. He has more than ten years of teaching experience. Strength of Material (SOM), Mechanical Vibration, CAD/CAM, and Finite Element Analysis are some of his favourite subjects to teach. He is a professional member of The Society of Automotive Engineers, India (SAEINDIA), Dhole Patil College of Engineering Pune honors him with the 'Best Teacher Award' in 2015.



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Crack Detection Analysis in Mechanical Component By Application of Non-Destructive Methods

Vishal Singh D. Rajput



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