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Titolo	Accelerated predictive stability : fundamentals and pharmaceutical industry practices / / edited by Fenghe Qiu, Garry Scrivens
Pubbl/distr/stampa	San Diego, California : , : Elsevier, , 2018
ISBN	0-12-802785-1 0-12-802786-X
Descrizione fisica	1 online resource (514 pages)
Disciplina	615.18
Soggetti	Drug stability Pharmaceutical industry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Part I. General chapters -- Accelerated predictive stability: an introduction -- Regulatory expectations and industry practice on stability testing -- Theory and fundamentals of accelerated predictive stability (APS) studies -- Practical considerations -- The humidity exposure of packaged products -- Data evaluation and statistical methods -- Strategies for improving the reliability of accelerated predictive stability (APS) studies -- Integration of APS into a rapid, early clinical drug product development paradigm -- Accelerated predictive stability (APS) regulatory strategies -- Embedding APS within business -- Implementing an accelerated predictive stability program -- Part II. Industry practices -- Accelerated stability assessment program (ASAP) applications in a postapproval environment -- ASAP application: unstable drug candidate in early development -- ASAP application in suspension, liquid, lyophilized, and controlled-release drug products -- Applications of ASAP to generic drugs -- ASAP application: nicotine lozenges -- ASAP applications in clinical development: prediction of degradation and dissolution performance -- Accelerated predictive stability (APS) applications: packaging strategies for controlling dissolution performance -- Accelerated stability modeling: investigation of disintegration time of a drug product with sodium bicarbonate -- Accelerated stability modeling: an ionic liquid drug product -- Accelerated stability modeling: assay loss of nicotine</p>

lozenges -- Accelerated stability modeling: desolvation of a solvate drug product.

#### Sommario/riassunto

"Accelerated Predictive Stability (APS): Fundamentals and Pharmaceutical Industry Practices provides coverage of both the fundamental principles and pharmaceutical industry applications of the APS approach. Fundamental chapters explain the scientific basis of the APS approach, while case study chapters from many innovative pharmaceutical companies provide a thorough overview of the current status of APS applications in the pharmaceutical industry. In addition, up-to-date experiences in utilizing APS data for regulatory submissions in many regions and countries highlight the potential of APS in support of registration stability testing for certain regulatory submissions. This book provides high level strategies for the successful implementation of APS in a pharmaceutical company. It offers scientists and regulators a comprehensive resource on how the pharmaceutical industry can enhance their understanding of a product's stability and predict drug expiry more accurately and quickly. Provides a comprehensive, one-stop-shop resource for accelerated predictive stability (APS). Presents the scientific basis of different APS models. Includes the applications and utilities of APS that are demonstrated through numerous case studies. Covers up-to-date regulatory experience"--

2. Record Nr.	UNINA9910811879603321
Autore	Wilcher Don
Titolo	Arduino electronics blueprints : make common electronic devices interact with an Arduino board to build amazing out-of-the-box projects / / Don Wilcher
Pubbl/distr/stampa	Birmingham, England ; ; Mumbai, [India] : , : Packt Publishing, , 2015 ©2015
ISBN	1-78439-211-1
Descrizione fisica	1 online resource (252 p.)
Collana	Community Experience Distilled
Disciplina	005.133
Soggetti	Arduino (Programmable controller) Programmable controllers Microcontrollers - Programming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	<p>""Cover""; ""Copyright""; ""Credits""; ""About the Author""; ""About the Reviewers""; ""www.PacktPub.com""; ""Table of Contents""; ""Preface""; ""Chapter 1: A Sound Effects Machine""; ""Parts list""; ""A sound effects machine block diagram""; ""Building the sound effects machine""; ""Introducing SPI communication""; ""Adding digital logic switches for WAV file selection""; ""Adding SD and WAV file libraries to your Arduino sketch (code)""; ""The TMRpcm library installation""; ""Adding a random function to play sounds automatically""</p> <p>""Adding an LED bar graph display for selected sound (concept)""""</p> <p>Summary""; ""Chapter 2: Programmable DC Motor Controller with an LCD""; ""Parts list""; ""A programmable motor controller block diagram""; ""Building the programmable motor controller""; ""Let's build it!""; ""Interfacing a discrete digital logic circuit with Arduino"";</p> <p>""Interfacing a small DC motor with a digital logic gate""; ""A sketch of the LCD selection cursor""; ""The partially programmable DC motor controller program sketch that comes without an LCD selection feature""</p> <p>""The partially programmable DC motor controller program sketch with an LCD selection feature""""</p> <p>Summary""; ""Chapter 3: A Talking Logic Probe""; ""Parts list""; ""A talking logic probe block diagram""; ""A</p>

talking logic probe a€? Testing the EMIC 2 TTS module"; ""EMIC 2 TTS module basics"; ""EMIC 2 TTS module's key features"; ""Electrical connections"; ""Let's build it!"; ""How does the talking logic probe code work"; ""DecTalk speech synthesizer engine"; ""Summary"; ""Chapter 4: Human Machine Interface"; ""Parts list"; ""HMI controller block diagram"  
""Testing the transistor motor driver""""Testing the pushbutton switch"";  
""Making the web page physical""; ""Now serving, the Arduino"";  
""Getting into the real world using Breakout""; ""Pre-lab exercise"";  
""Setting up the Breakout file directory""; ""The motor control HTML script""; ""Summary""; ""Chapter 5: IR Remote Control Tester""; ""Parts list""; ""IR remote control tester block diagram""; ""IR signals and communication protocols""; ""littleBits electronic modules""; ""Wiring the IR receiver module""; ""Wiring the Arduino and the LCD""; ""IR tester code""; ""Summary""  
""Chapter 6: A Simple Chat Device with LCD""""Parts list""; ""A Simple Chat device block diagram""; ""Building a serial-based Simple Chat device""; ""Serial-based Simple Chat device code""; ""The Nordic nRF8001 BLE IC""; ""The RedBearLab BLE shield""; ""Installing the RBL\_nRF8001 library""; ""Uploading the BLEControllerSketch code to the Arduino Uno""; ""Connecting with an Android smartphone"";  
""Summary""; ""Chapter 7: Bluetooth Low Energy Controller""; ""Parts list""; ""BLE Controller block diagrams""; ""Building a BLE DC motor controller""  
""Building a BLE seven segment LED display controller""

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## Sommario/riassunto

This book is intended for those who want to learn about electronics and coding by building amazing devices and gadgets with Arduino. If you are an experienced developer who understands the basics of electronics, then you can quickly learn how to build smart devices using Arduino. The only experience needed is a desire to learn about electronics, circuit breadboarding, and coding.

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